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1/57

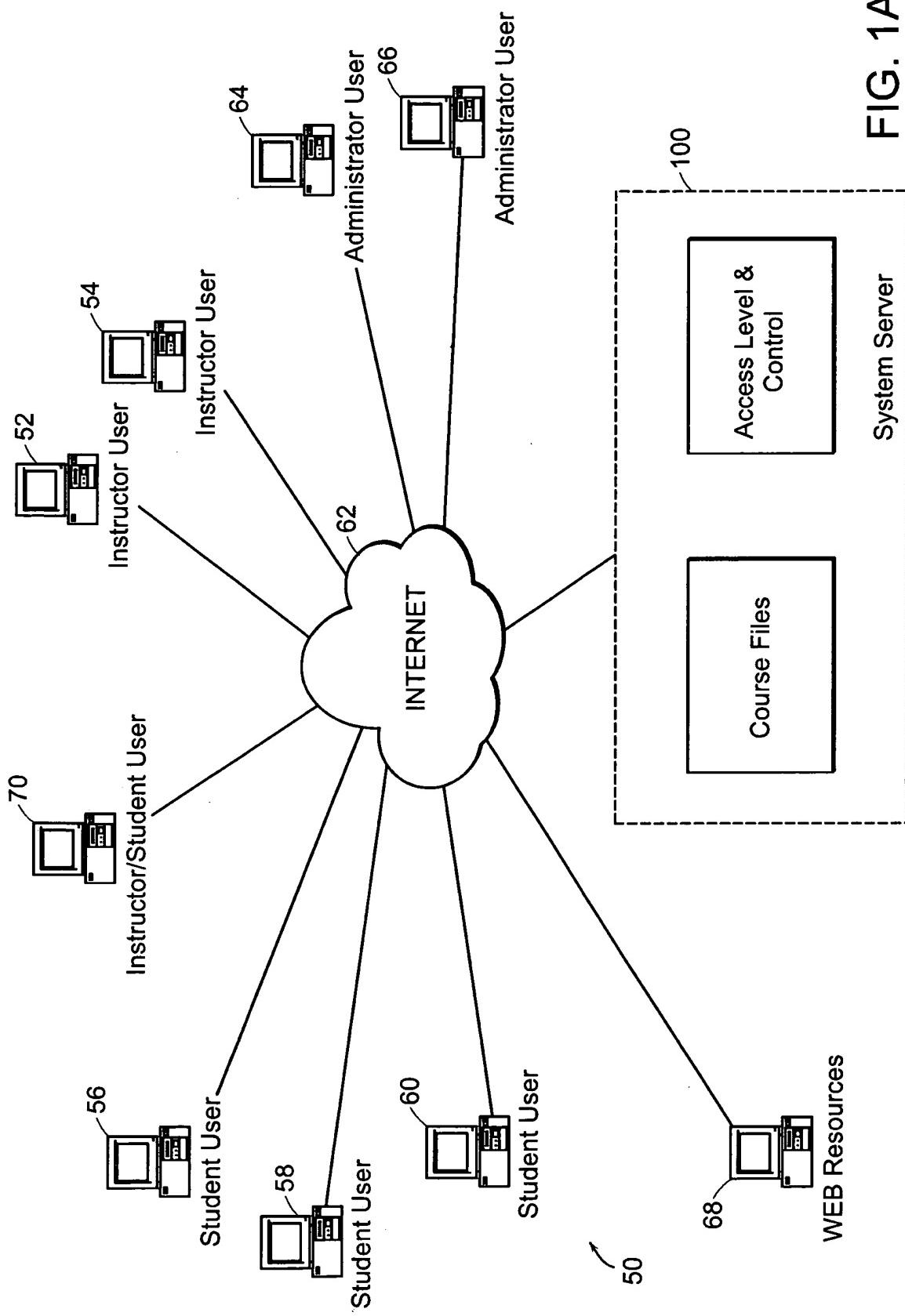


FIG. 1A

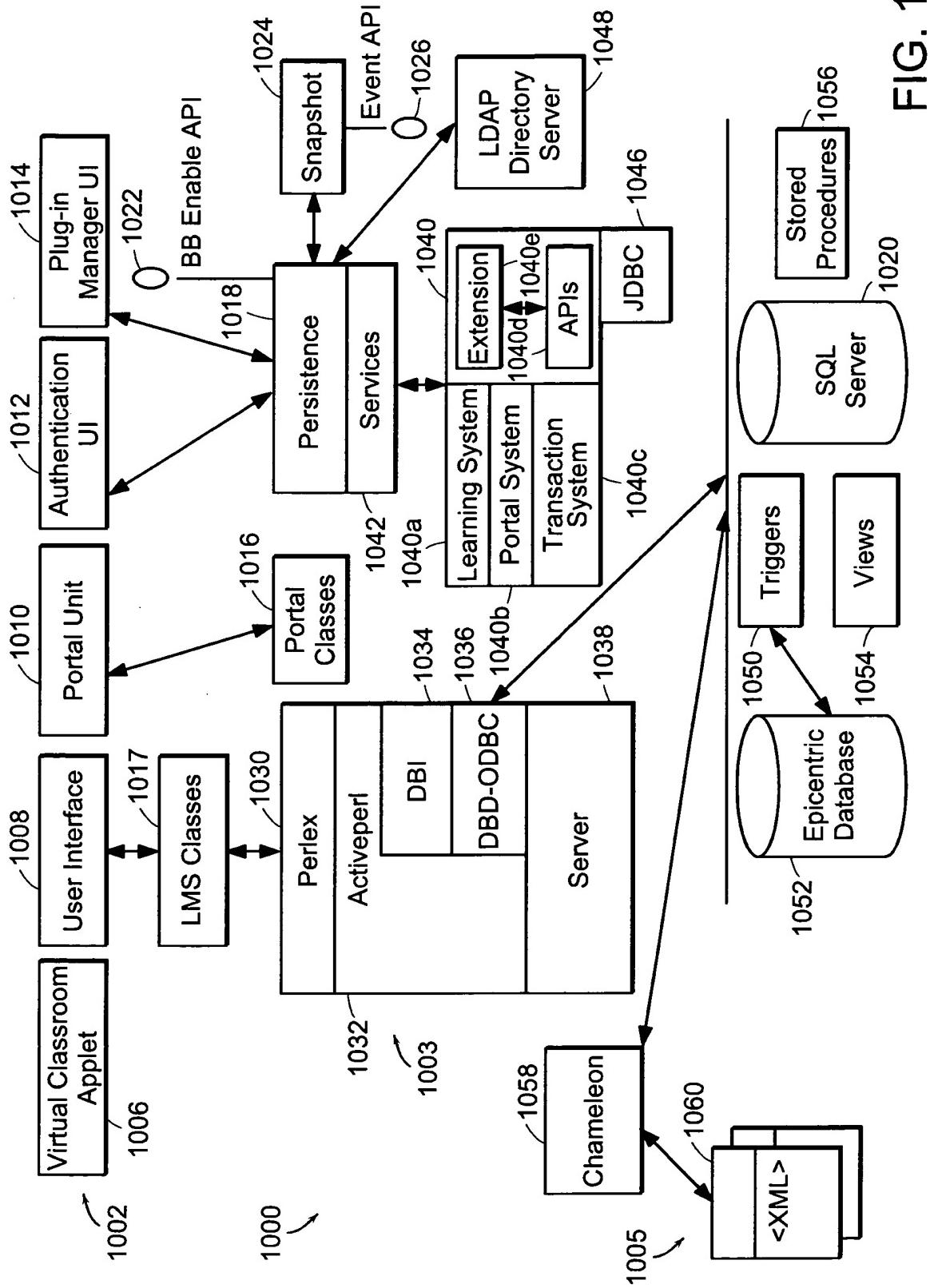


FIG. 1B

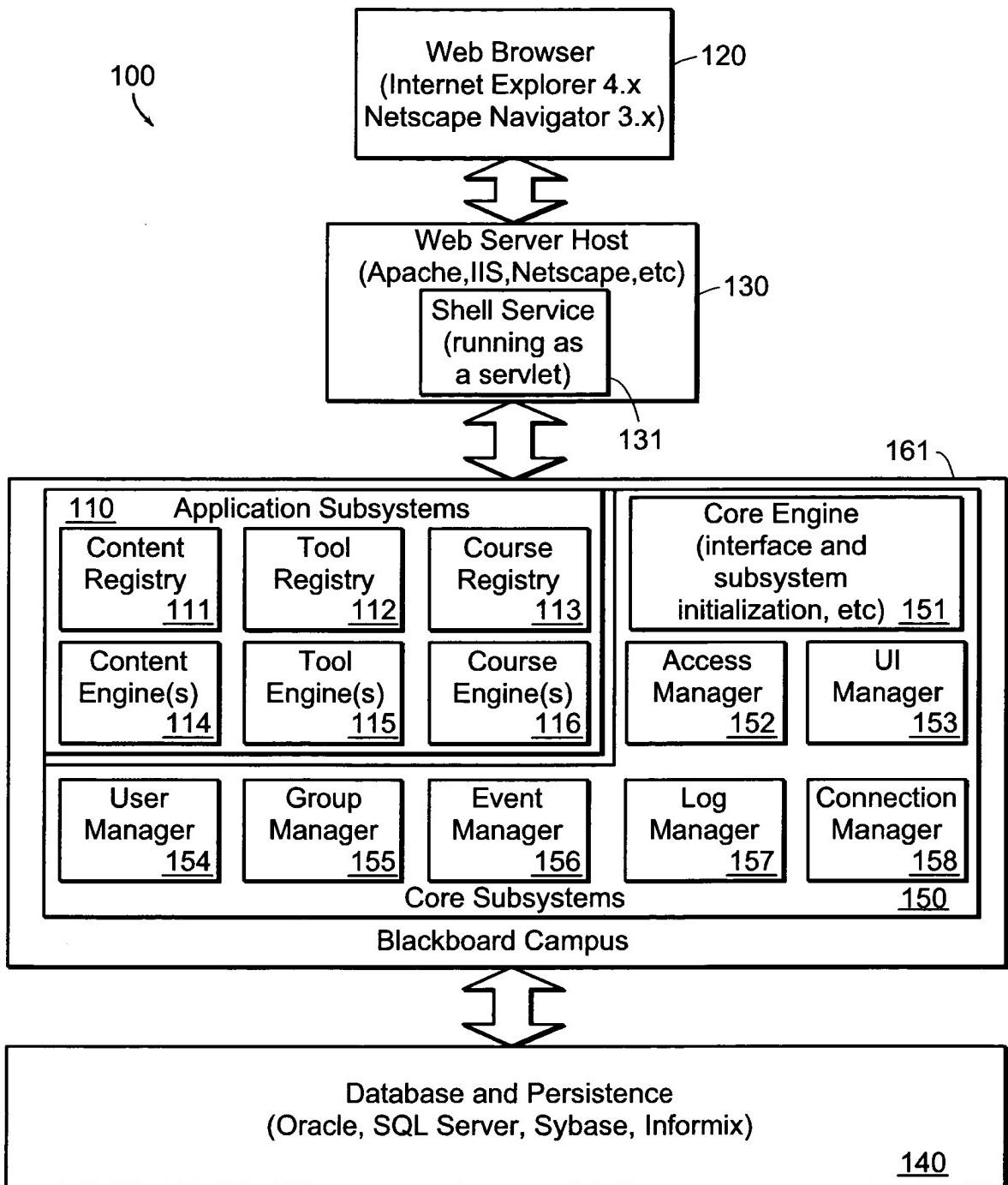
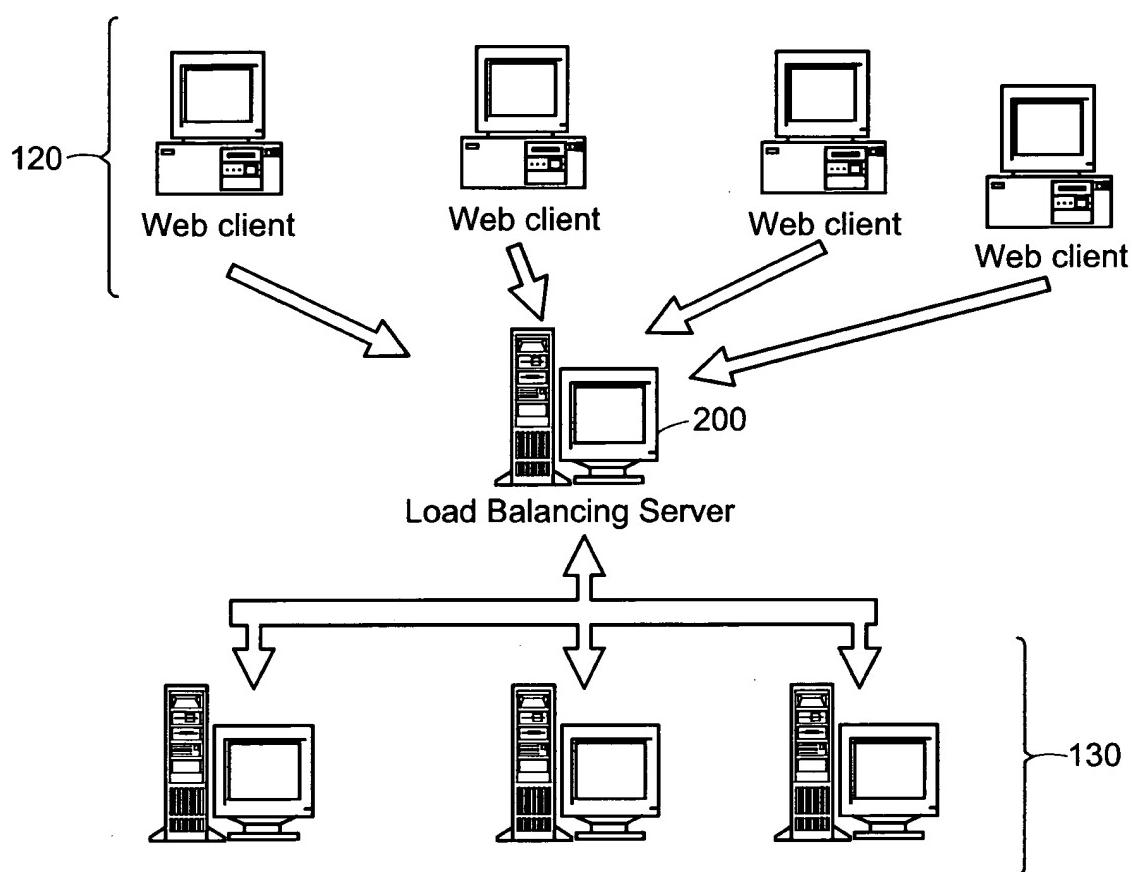
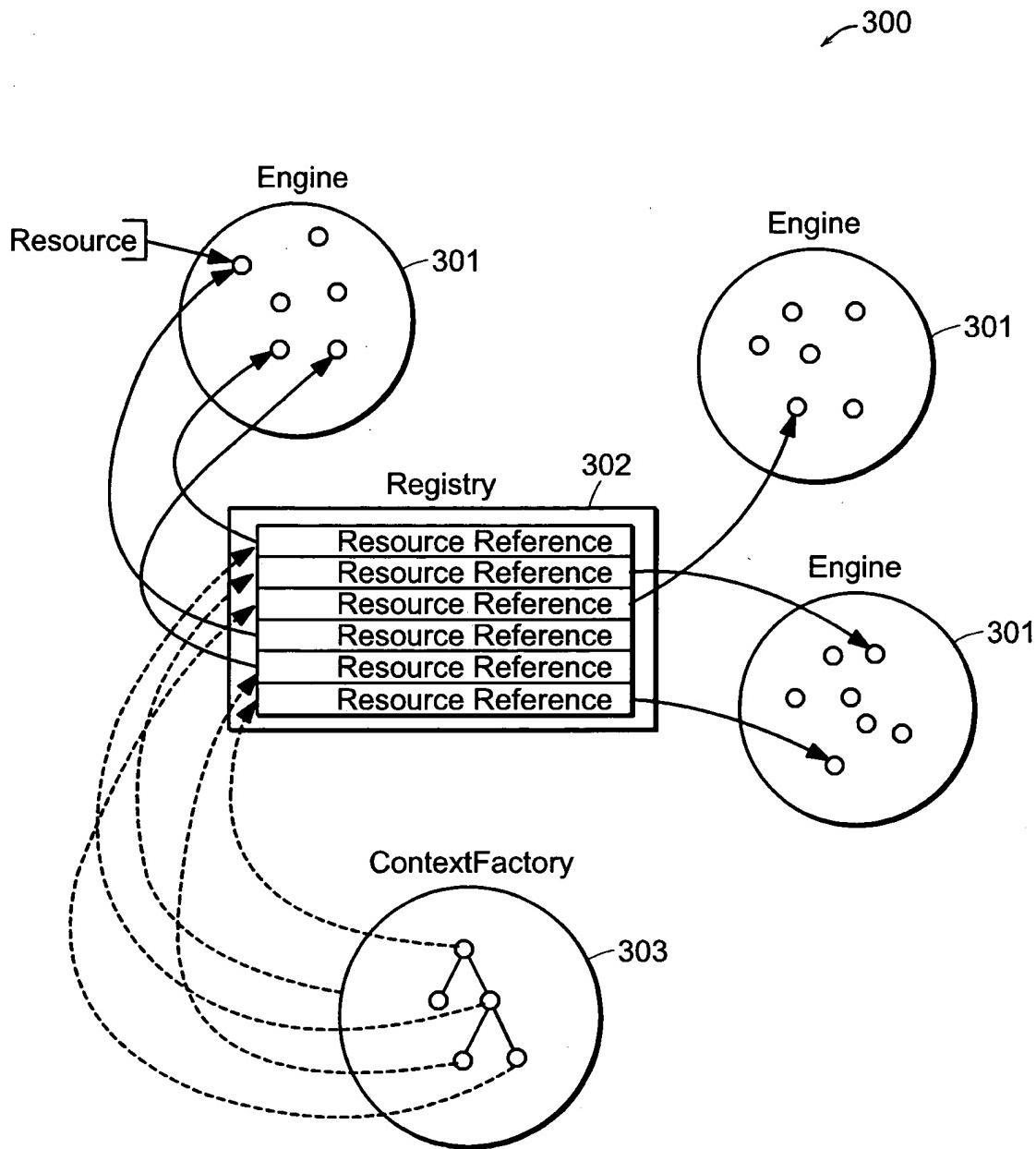


FIG. 1C



*Machine Scalability Using Load Balancing*

**FIG. 2**



*Engine/Registry Model*

**FIG. 3**

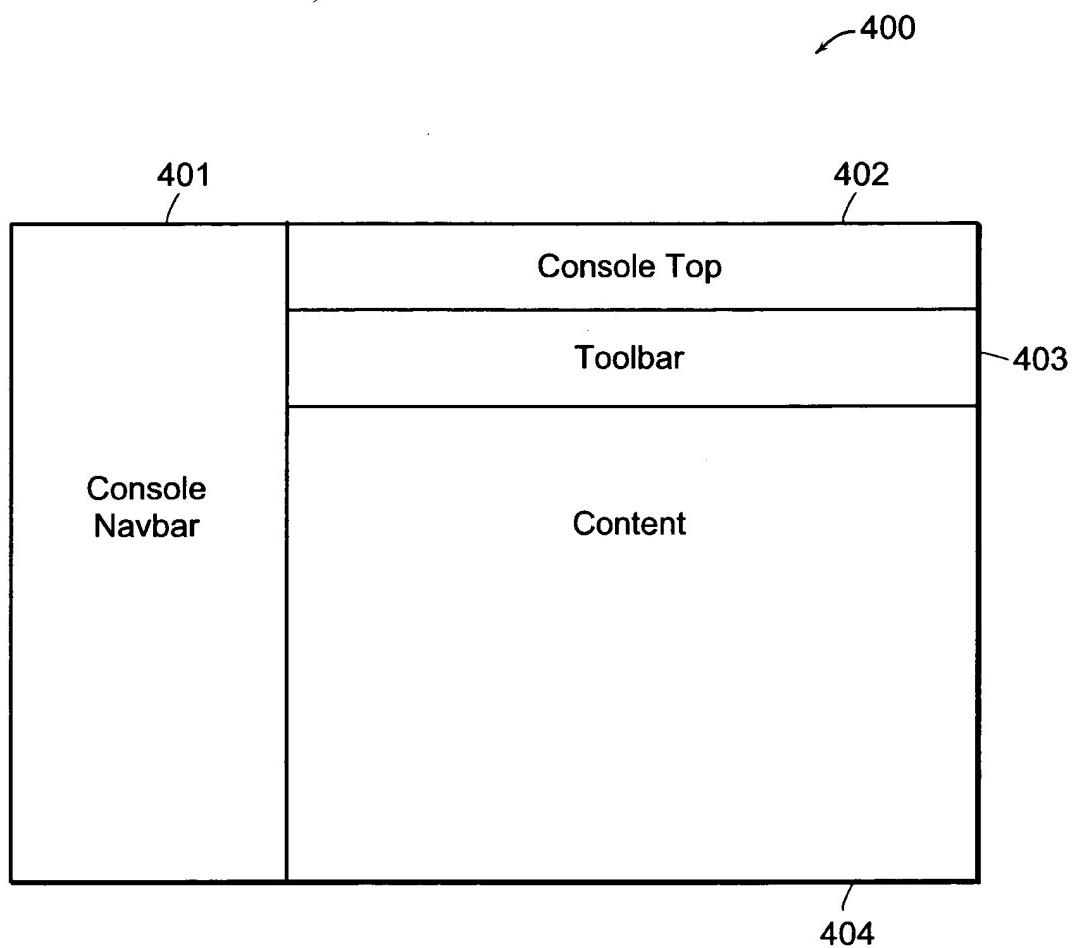


FIG. 4

500

**Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Go Links Blackboard ASP Web Tools Crystal Report Viewer

Address http://localhost/webapps/portal/frameset.jsp Go Links Blackboard ASP Web Tools Crystal Report Viewer

Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

504 502 508 510 506

**My Institution**

**Tools**

- Announcements
- Calendar
- Tasks
- View Grades
- Send E-mail
- User Directory
- Address Book
- Personal Information

**My Announcements**

No system announcements have been posted today.

**My Courses**

Courses you are teaching:

**My Organizations**

You are not currently participating in any organizations

**My Tasks**

No tasks due.

**Learn More About Course Cartridges**

*Take your course Web site development to the next level by adding a Blackboard Course Cartridge containing pre-packaged instructional course materials, professionally produced by one of the many Publisher Partners of Blackboard.*

To get started visit <http://cartridges.blackboard.com> and search for available cartridges in your subject discipline.

**Course Creation Wizard**

You can now create your own courses using a step-by-step wizard approach. Create a course in less than 2 minutes!

[Click here to launch the Course Creation Wizard.](#)

Trusted sites

FIG. 5

**CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.**

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address: http://georgetown1/Blackout\_v30r/bb\_admin/frames/frame\_enterprise\_courses.html

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources

**SEARCH THE WEB**  
Search for a course:  GO  
[advanced search](#)

**OFF-CAMPUS LEARNING**  
**Kaplan**  
Help prepare for final exams.  
**Tutornet**  
Need a tutor, use the virtual chat 24 hour Tutornet service.  
**eHow**  
Find out how to do just about anything  
**Blackboard.com**  
Find courses you can take online

**SEARCH THE WEB**  
Search the Web  GO  
[advanced search](#)

**Course List:**  
Courses you are teaching: 602  
**Introduction to Music**  
 Course ID: MUSIC101  
 Department: Art & Music  
 Instructor(s): Dr.Lou Pugliese  
 Online Material: Yes 604  
**American History**  
 Course ID: AHIST101  
 Department: Social Science  
 Instructor(s): Dr.Chesen  
 Online Material: Yes 606  
 Courses in which you are enrolled:  
**Accounting 101**  
 Course ID: ACCT101  
 Section: 2  
 Department: Business  
 Instructor(s): Alan Stewart  
 Online Material: No 608  
**Space and Beyond**  
 Course ID: SPACE301  
 Section: 1  
 Department: Music  
 Instructor(s): Laurie Wagnon  
 Online Material: Yes 610  
**Algebra 2**  
 Course ID: ALGEBRA2  
 Section: 2

**Course Catalog:** 612  
 • Agricultural Sciences & Natural Resources  
 • Architecture  
 • Art & Sciences  
 • Business Administration  
 • Division of Continuing Studies  
 • Engineering & Technology  
 • Fine & Performing Arts  
 • Graduate Studies  
 • Great Plains Veterinary Educational Center  
 • Human Resources & Family Sciences  
 • Journalism & Mass Communications  
 • Law  
 • Military & Naval Sciences  
 • Nebraska College of Technical Agriculture - Curtis  
 • Public Affairs & Community Service  
 • Special Projects  
 • Teachers College 614  
 ▶ [Browse Course Catalog](#)

Local intranet

600

FIG. 6

**CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.**

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout\_v30r/bb\_admin/frames/frame\_enterprise\_courses.html Go

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources

Courses > INTRODUCTION TO MUSIC

MUSIC101: Introduction to Music

Announcements Introduction to Music

Course Information

Staff Information

Course Documents

Assignments

Communication

External Links

Student Tools

Resources

Course Map

Control Panel

music  
101

Music Theory Basics

- Music Notation
- Note Signatures
- Time Signatures

Announcements Posted in the Last Two Weeks

Subject: Course Packets Posted by Rachael

The library has printed an additional 25 course packets. If you have up, please drop by the library and purchase one. They are available.

Subject: Assignment #3 Office Hours Posted by Rachael

Assignment #3 Office Hours have been changed from 2:00-3:00 to B45

Today  Last 2 Weeks  Last Month  All

Done

700 702 900

**Course Controls - Microsoft Internet Explorer**

Course Contents

Click on any book to expand

- Course Information
  - Course description
  - Staff information
    - Staff description
- Course description
  - Life and times at the school
    - The review
    - The Picks
- Assignments
  - Essay
  - Quizzes
- Communication
- External links
  - Enigmatic "Hamlet" by William Shakespeare
  - Enigmatic "King Lear" by William Shakespeare
  - ???
  - Mr. William Shakespeare and the Internet
  - The William Shakespeare on the Internet
  - ???
  - The official William Shakespeare Web site
- Student Tests

FIG. 7

10/57

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History

Address http://blackout.blackboard.com/course/instructor/index.html

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

John Wayne

music 101

Music Theory Basics  
• Lesson Structure  
• Note Signature  
• Time Signature

Announcements

Posted in the Last Two Weeks

Subject: Class location change  
We've moved to room 101  
Posted by Fitz McPhaul on May 19, 2000

Subject: Greeting  
Welcome MCCC  
Posted by Jonathan Goldstein on May 16, 2000

Subject: A new quiz has been posted  
To begin taking the quiz titled NYCTA click here  
Please answer these questions carefully.  
Posted by Fitz McPhaul on May 10, 2000

Done Internet

Start pcANYWHERE Inbox- Microsoft Exploring- Desc. Text on BB.5d... CourseInfo Fig.Q doc Micr... Fig.P doc Micr... Fig.U doc Micr... Course Content 3:37 PM

Document 20 Document 21 Fig.P doc Micr... Fig.U doc Micr... Course Content

804 806 808 700 702

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History

Address http://blackout.blackboard.com/course/instructor/index.html

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Please check your announcements on a daily basis.  
Thanks, Stacey

Subject: Course Map  
Welcome to your new course  
You can navigate your course by using the map below.

Course Contents

(click on any book to expand)

- Course Information
- Staff Information
- Course Documents
- Assignments
- Communication
- External Links
- Student Tools

Resources

Course Map

My Blackboard

Search Logout

Subject:  
WELCOME TO MUSIC 101!

Use the buttons provided on the left side of your screen to navigate the CourseSite. Begin by clicking the COURSE INFORMATION button to view important information before beginning the course.

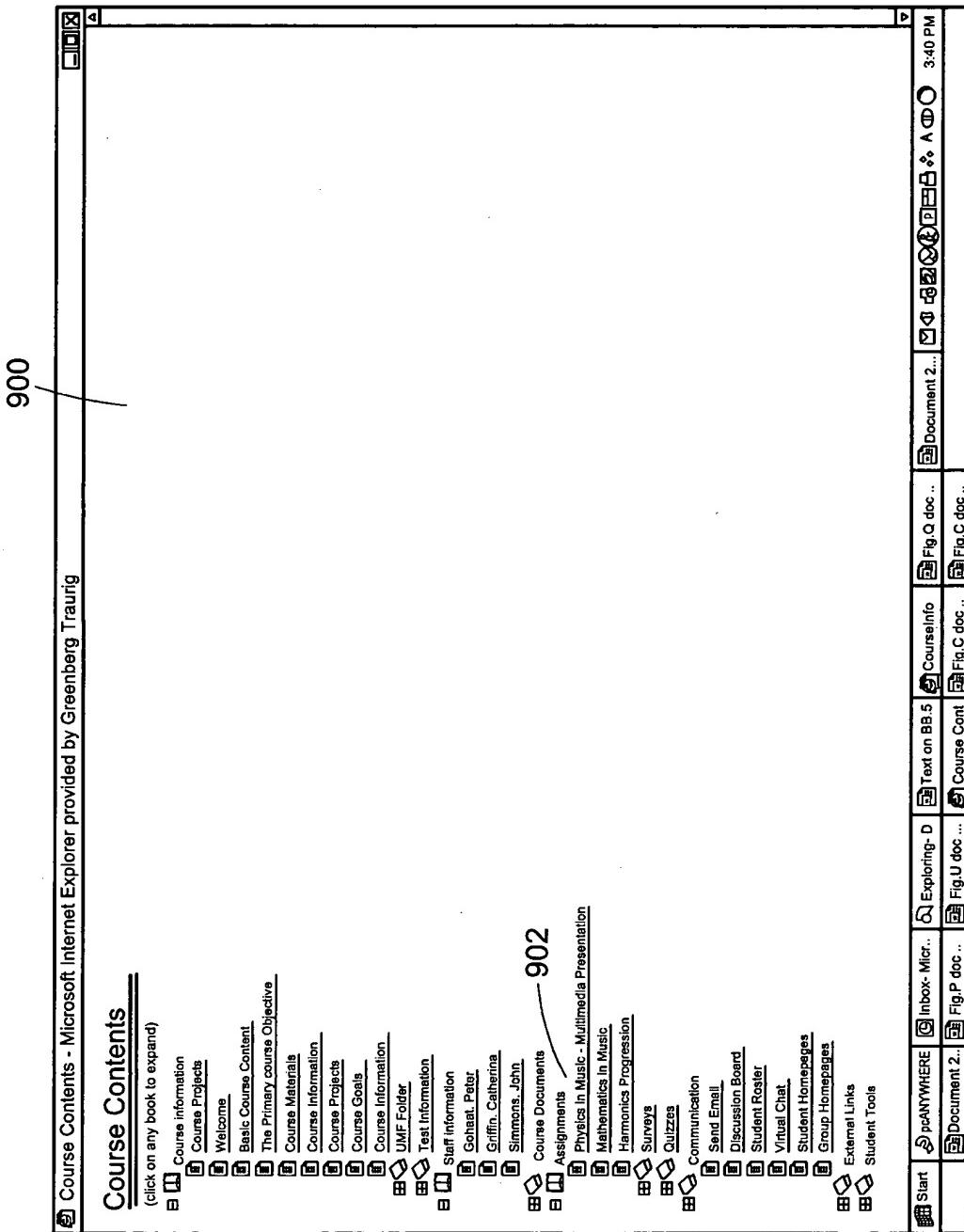
Today Last 2 Weeks Last Month All

Internet

Start pcANYWHERE Inbox- Microsoft Exploring- D Text on BB.5d... CourseInfo Fig.Q doc Micr... Fig.P doc Micr... Fig.U doc Micr... Course Content Fig.C doc Micr... Document 2... Document 2... 3:38 PM

804 806 700 802

FIG. 8



୬୮

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Trauring

File Edit View Favorites Tools Help

Back Search Favorites History Go

Address http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

John Wayne Music 101: Introduction to Music

**Assignments**

[Top]

Current Location: Assignments

Physics in Music - Multimedia Presentation  
[Link to File](#)

Please view the following video prior to class on Wednesday, February 16. Our class discussion on that day will focus on the intertwining of physics and music. Don't worry though, you don't need to have a physics degree to understand.

Mathematics in Music  
[Link to File](#)

Please read the attached document and be prepared to discuss it in Friday February 18th's class.

Surveys

Harmonic Progression  
[Link to File](#)

Please review the attached document for class on Wednesday, February 23.

Quizzes

1074  
 Announcements  
 Course Information  
 Staff Information  
 Course Documents  
 Assignments  
 Communication  
 External Links  
 Student Tools  
 Resources  
 Course Map  
 My Blackboard  
 Search Logout

1072

1076

1078

1080

1082

1084

1070

Click to collapse Internet

Start pcANYW... Inbox- M... Exploring... Text on B... CourseInfo Fig.Q doc... Docum... Docum... Fig.C doc... Fig.C doc... Acrobat

Fig.P doc... Fig.U doc... Course C... Fig.C doc... Fig.C doc... Fig.C doc... Acrobat

3:43 PM

**FIG. 10**

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout\_v30r/bb\_admin/frames/frame\_enterprise\_courses.html Go

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources

Courses > INTRODUCTION TO MUSIC

MUSIC101: Introduction to Music

Announcements Course Documents

[Top] Current Location: Course Documents

Syllabus [Link to File](#)

Session 1  
The major scale, has no sharps or flats associated with any of the notes in the scale. Here is the C major scale in the treble staff.  
(to display options for the animation below, move your mouse pointer atop the image and click the right mouse button)

Session 1: Lessons

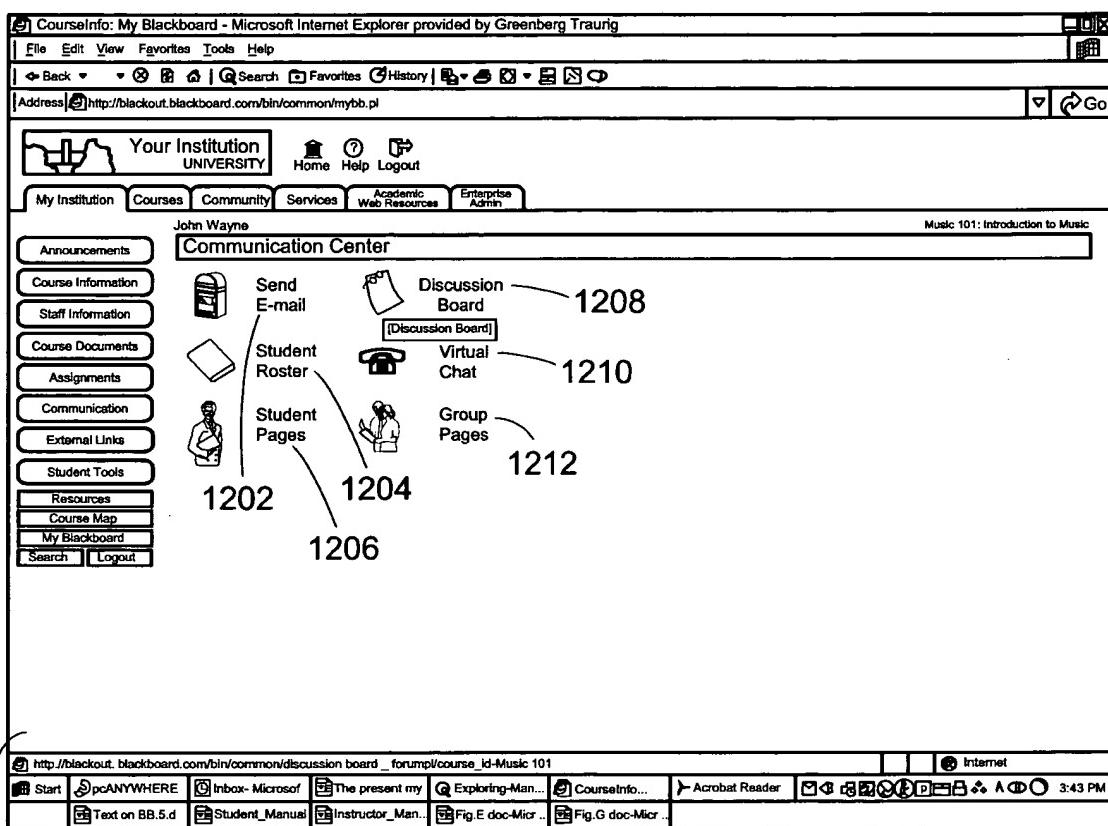
Session 1: An Atlas of Consonance [Link to File](#)  
Please print this document and keep it available for fast review.

Session 2: Music Notation

Done Local intranet

1100

FIG. 11



1200

FIG. 12

**CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.**

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://blackout\_blackboard.com/bb\_admin/frames/frame\_enterprise\_courses.html Go

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin.

Courses > INTRODUCTION TO MUSIC

Blackboard Administrator MUSIC101: Introduction to Music

Communication Center

Discussion Board - Thread View

VIEW UNREAD MESSAGES EXPAND ALL COLLAPSE ALL SEARCH

OPTIONS

EFFECT ALL DESELECT INVERT READ UNREAD COLLECT

This is a top level thread Cane, Daniel 25-Feb-2000  
 This is a replay to your top level thread Chi, Timothy 26-Feb-2000 [New]  
 This is a top level thread Cane, Daniel 28-Feb-2000 [New]  
 Hello World! Klimenko, Anatoliy 27-Feb-2000 [New]  
 Re: Hello World! Klimenko, Anatoliy 28-Feb-2000 [New]

[Click Here for Archives]

Sort By: Default Previous

Done Internet

1300

FIG. 13

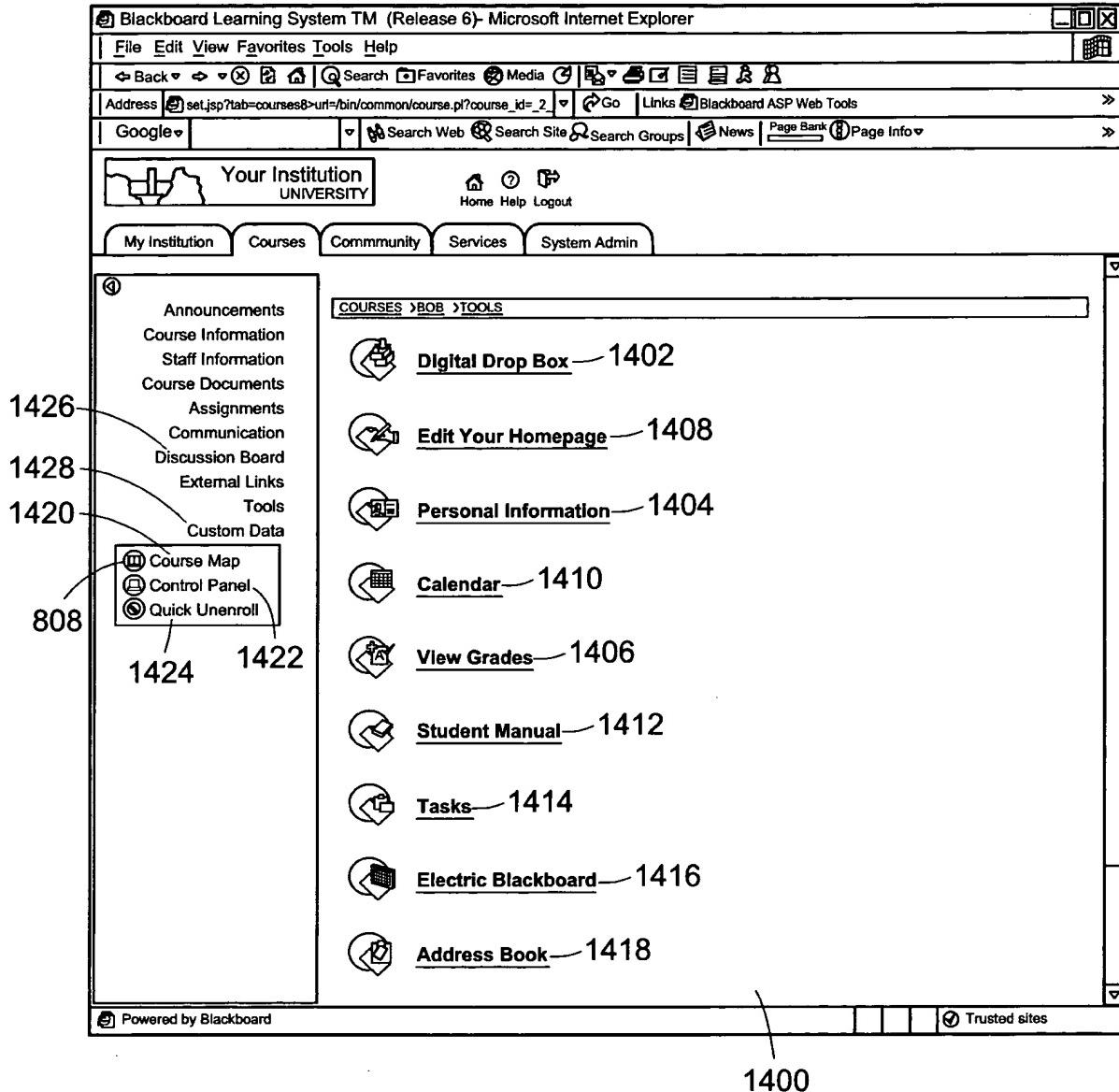


FIG. 14

## John Wayne Student Tools

### Student Drop Box

Use your student drop box to submit files to your instructor. Also, your instructor can return your files to you with comments attached.



#### Current Files in your DropBox

Note: If you want to save a file, right click on the Link Name and choose Save Link As.

| <u>File Name</u> | <u>Link Name</u> | <u>File Size</u> | <u>Status</u> |
|------------------|------------------|------------------|---------------|
| none             | none             | none             | none          |
| [Remove Files]   | 1510             |                  |               |



#### Add File to DropBox

Click the Browse button to select the file to attach from your computer.  
Be sure to specify a linkname for your file,

|      |  |
|------|--|
| 1502 | <input type="text"/> [Browse...]               |
| 1504 | <input type="text"/>                           |
| 1506 | <input type="text"/> [Send File to Instructor] |

#### File to Upload:

#### Name of Link to File:

(Example: *Homework One, Assignment One*)

Back

1500

**FIG. 15**

**Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer**

**File Edit View Favorites Tools Help**

**Address** et.jsp?tab=courses&url=b/in/common/course.pl?course\_id=2\_1 **Go** **Links** Blackboard ASP Web Tools Crystal Report Viewer

**Google** **Search Web** **Search Site** **Search Groups** **News** **Page Bank** **Page Info** **Up** **Highlight**

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

**COURSES >PATENT >CONTROL PANEL**

1604 PATENT: Patent . Blackboard Administrator (Instructor) 1602 1610  
 1618 Content Areas 1622 Course Information 1624 Assignments 1626 1610  
 1622 Course Documents 1624 External Links 1626  
 1606 Course Tools 1616 Announcements 1638 Discussion Boards 1612  
 1616 Course Calendar 1628 Send E-mail 1639  
 1620 Staff Information 1620 Collaboration 1641 1640  
 1630 Tasks 1630 Digital Drop Box 1640  
 1608 Course Options 1642 Manage Course Menu 1643 Import Course Cartridge 1602  
 1642 Archive Course 1644 Import Package 1645  
 1646 Recycle Course 1646 Manage Tools 1647 Resources 1645 1614  
 1648 Settings 1648 Settings 1651 Course Copy 1649  
 1650 1650 Export Course 1651  
 1600 1600

**User Management**  
 List/Modify Users 1654 Enroll User 1656  
 Create User 1652 1657 Remove Users from the Course  
 Batch Create Users for Course 1658  
 Manage Groups 1602

**Assessment**  
 Test Manager 1660 Gradebook 1664  
 Survey Manager 1661 Gradebook Views 1665  
 Pool Manager 1662 Course Statistics 1666

**Support**  
 Support 1670 1668  
 Manual 1668 Contact System Administrator 1672

**POWERED BY**  
  
 Blackboard Learning System TM (Release 6) Blackboard Learning and Community Portal System -0.0.11 Build 30  
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 Accessibility Information can be found at <http://access.blackboard.com>.

Powered by Blackboard Trusted sites

FIG. 16

1706

1702 1704

1700

Done

Start pcANYW... Inbox- M... Exploring-D Text on BB... CourseInfo Fig.V doc... Document 2... Fig.U doc... Fig.C doc... Fig.C doc... Fig.C doc... 3:52 PM

Document 2... Fig.P doc... Fig.U doc... Fig.C doc... Fig.C doc... Fig.C doc...

FIG. 17

**1806**

**1800**

**1802 1804**

FIG. 18

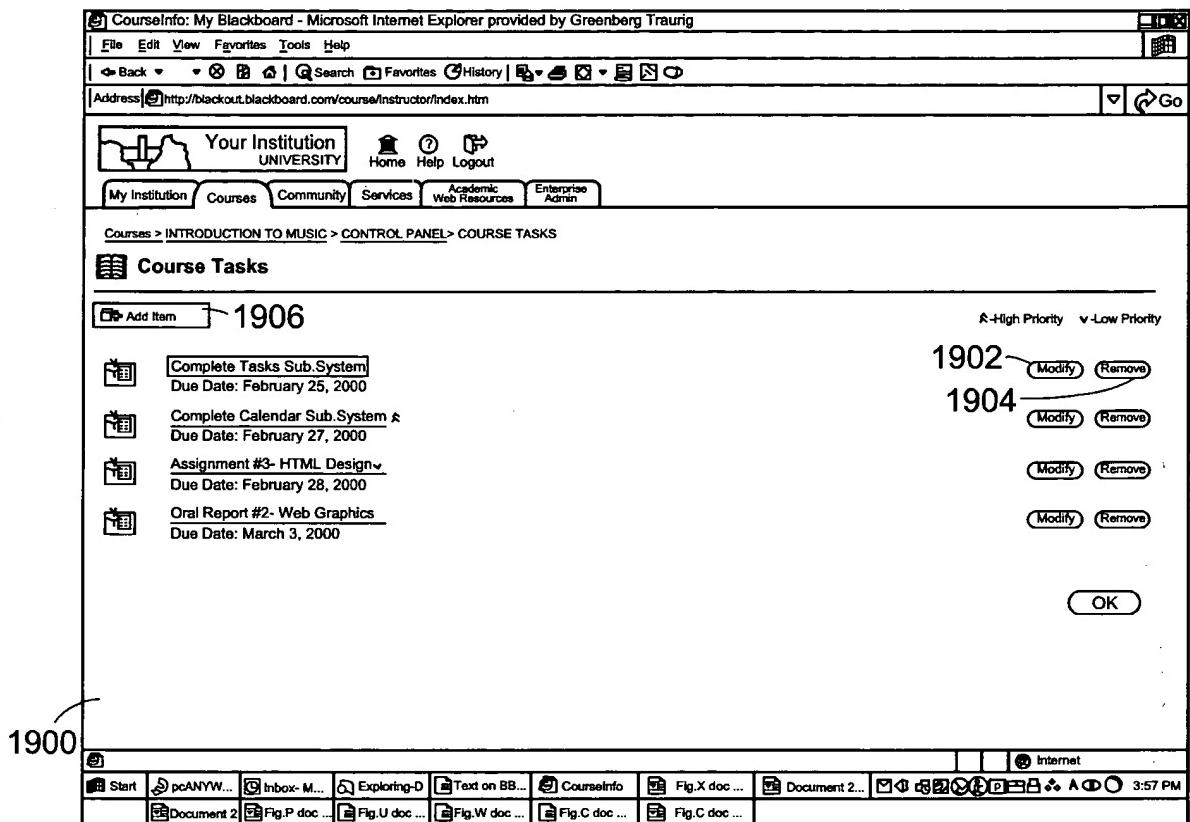


FIG. 19

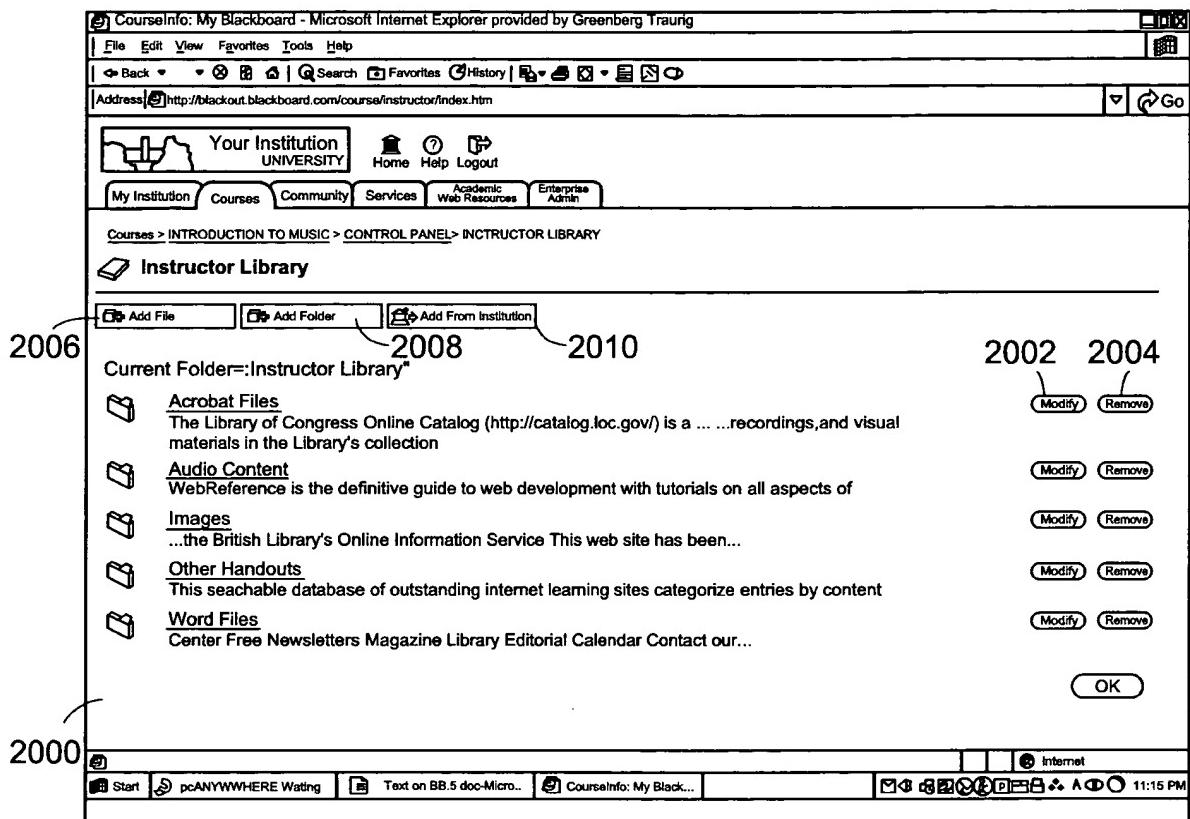


FIG. 20

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back  Home  Search  Favorites  History

Address: http://blackout.blackboard.com/course/instructor/index.htm Go

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Courses > INTRODUCTION TO MUSIC > CONTROL PANEL > DIGITAL DROPBOX

**Digital Dropbox**

Add File Send File 2102

2102

- Assignment #2 (326k)  
Submitted by: Daniel Cane  
Received on: February 25, 2000 9:25am
- Assignment #2 (412k)  
Submitted by: Tim Chi  
Received on: February 24, 2000 8:27pm
- Assignment #1 (321k)  
Submitted by: Emilio Ramos  
Received on: February 24, 2000 4:48pm
- Assignment #3 Draft(1293k)  
Posted on: February 20, 2000
- Lecture #3 Outline(2945k)  
Posted on: February 09, 2000

Page: 12345 [Next >] OK

2100

Start pcANYW... Inbox - M... Exploring... Text on B... Courses... Fig.Z doc... Docum... Docum... Internet 4:00 PM

|              |              |              |             |            |              |              |
|--------------|--------------|--------------|-------------|------------|--------------|--------------|
| Fig.P doc... | Fig.U doc... | Fig.W doc... | Fig.C do... | Fig.C d... | Fig.X doc... | Fig.Y doc... |
|--------------|--------------|--------------|-------------|------------|--------------|--------------|

FIG. 21

**Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back × Home Search Favorites Media Go Links Blackboard ASP Web Tools Crystal Report Viewer

Address et.jsp?tab=courses&url=/bin/common/course.p!course\_id=2\_1 Go Links Blackboard ASP Web Tools Crystal Report Viewer

Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My institution Courses Community Services System Admin

COURSES >PATENT > CONTROL PANEL > GRADEBOOK

**View Spreadsheet 2200**

| 2202  | 2204         | 2206   | 2208          | 2210                              | 2212          | 2218           |
|---|--------------|--|---------------|-----------------------------------|---------------|----------------|
| Add Item  | Manage Items | Gradebook Settings                                   | Weight Grades | Download Grades                   | Upload Grades |                |
| Sort Items by: Position GO  |              | Filter Items by Category: All GO                     |               | Filter Users by Last Name: All GO |               |                |
| Student Name (Last, First) 2214 2216  |              | Mid-Term Assignment<br>Pts Possible: 0<br>Weight: 0% |               | Total<br>Pts Possible: 0          |               | Weighted Total |
| Alcorn, Bob   |              | 100  |               | 100                               |               | 0%             |
| 1 Students Displaying records 1 - 1 << Previous 1 Next>>  |              |  |               |                                   |               |                |
| <ul style="list-style-type: none"> <li> ⓘ In Progress</li> <li> . No Information</li> <li> ! Needs Grading</li> <li> ? Grading Error</li> <li> ✓ Completed</li> </ul> <p>Denotes a non-visible item</p> |              | OK   |               |                                   |               |                |
| Powered by Blackboard Internet  |              |  |               |                                   |               |                |

FIG. 22

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > COURSE STATISTIC > REPORT

## Course Statistics

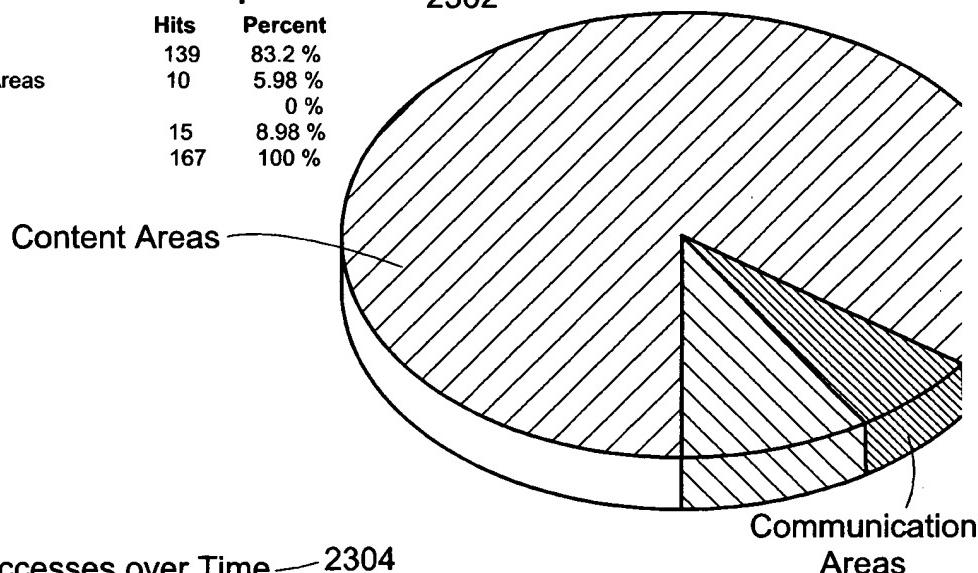
Statistics Generated on Thursday, February 24, 2000 11:26:28AM

Note: You may have to reload/refresh this page for the images to be correct.

|                                   |      |
|-----------------------------------|------|
| Total Number of Accesses per Area | 2302 |
| Number of Accesses over Time      | 2304 |
| User Accesses per Hour of the Day | 2306 |
| User Accesses per Day of the Week | 2308 |
| Total Accesses by User            | 2310 |

### Total Number of Accesses per Area — 2302

| Area Name           | Hits | Percent |
|---------------------|------|---------|
| Content Areas       | 139  | 83.2 %  |
| Communication Areas | 10   | 5.98 %  |
| Group Areas         |      | 0 %     |
| Student Areas       | 15   | 8.98 %  |
| Total               | 167  | 100 %   |



### Number of Accesses over Time — 2304

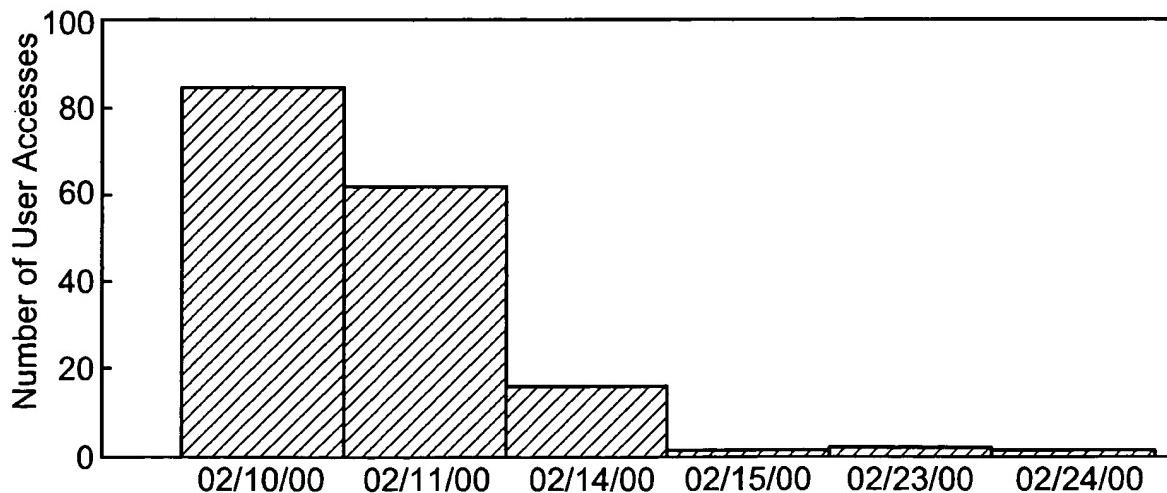
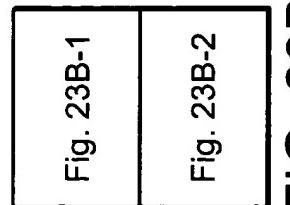
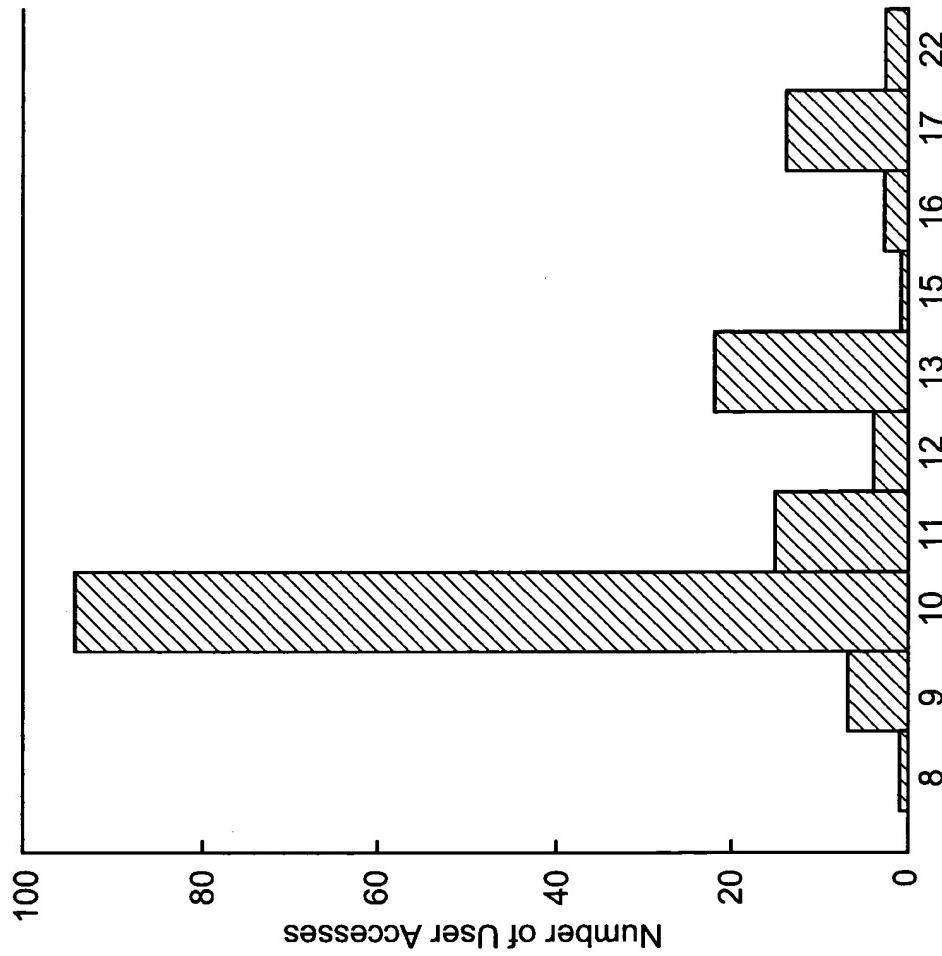


FIG. 23A

| User Accesses by Hour of the Day — 2306 |      |         |
|---|------|---------|
| Hour of the Day                         | Hits | Percent |
| 8                                       | 1    | 0.59 %  |
| 9                                       | 7    | 4.19 %  |
| 10                                      | 94   | 56.2 %  |
| 11                                      | 15   | 8.98 %  |
| 12                                      | 4    | 2.39 %  |
| 13                                      | 22   | 13.1 %  |
| 15                                      | 1    | 0.59 %  |
| 16                                      | 3    | 1.79 %  |
| 17                                      | 14   | 8.38 %  |
| 22                                      | 3    | 1.79 %  |
| 23                                      | 3    | 1.79 %  |
| Total                                   | 167  | 100 %   |

**FIG. 23B**

Hour of the Day (24h Format)

**FIG. 23B-1**

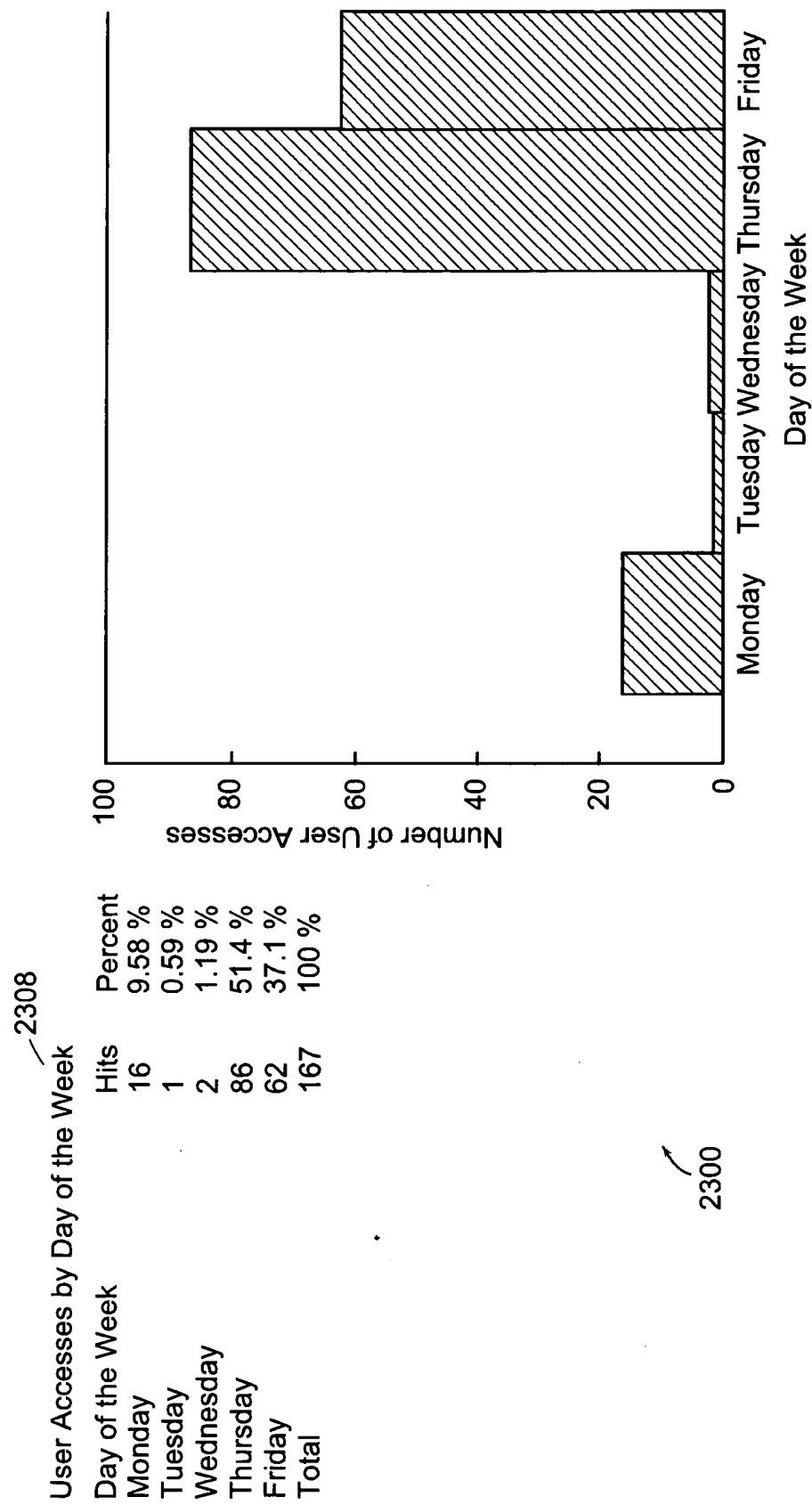


FIG. 23B-2

**Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports

Address http://localhost/webapps/portal/frameset.jsp?tab\_id=7\_1 Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports

Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

2403a 2403b 2403c 2403d 2401 2490

**Blackboard Learning System™ (Release 6)** Blackboard Internal SE Dev Edition 6.0.9 build 220 administrator (System admin) 2442

bb\_bh60

2414

2402 Courses

- List/Modify Courses 2416 Export Course
- Create Course 2418 Archive Course
- Batch Create Courses 2420 Restore Courses
- Batch Enroll Users in Course 2422 Settings
- Remove Course 2424 Images and Icons
- Copy Course 2426 Catalog
- Import Course 2412

System Options

- Manage System Extension 2444 System Config Info
- System Reporting 2446 Logs

Tools

- Announcements 2454
- Institution Calendar 2456 2452
- Send E-mail 2458 2460

2428 Organizations

- List/Modify Organizations 2462 Import Organization
- Create Organization 2464 Export Organization
- Batch Create Organizations 2466 Archive Organization
- Batch Enroll Users in Organization 2468 Restore Organization
- Remove Organization 2470 Settings
- Copy Organization 2470 Images and Icons
- Discussion Boards 2470 Catalog

Security and Integration

- SSI Choice 2472 Customize User Profile
- Authentication Config 2474 User Privileges
- Manage Context Encryption Key 2478 System Settings
- Integration Password 2476 Gateway Options
- Customize Login Page 2476

Assistance

- Online Admin Manual 2480
- Online Support Site 2482 2479
- Designate Local Support Contact 2484

2430

2432 Users

- List/Modify Users Remove Users from the System
- Create User Batch Remove Users from the System
- Batch Create Users 2434 Observer Management

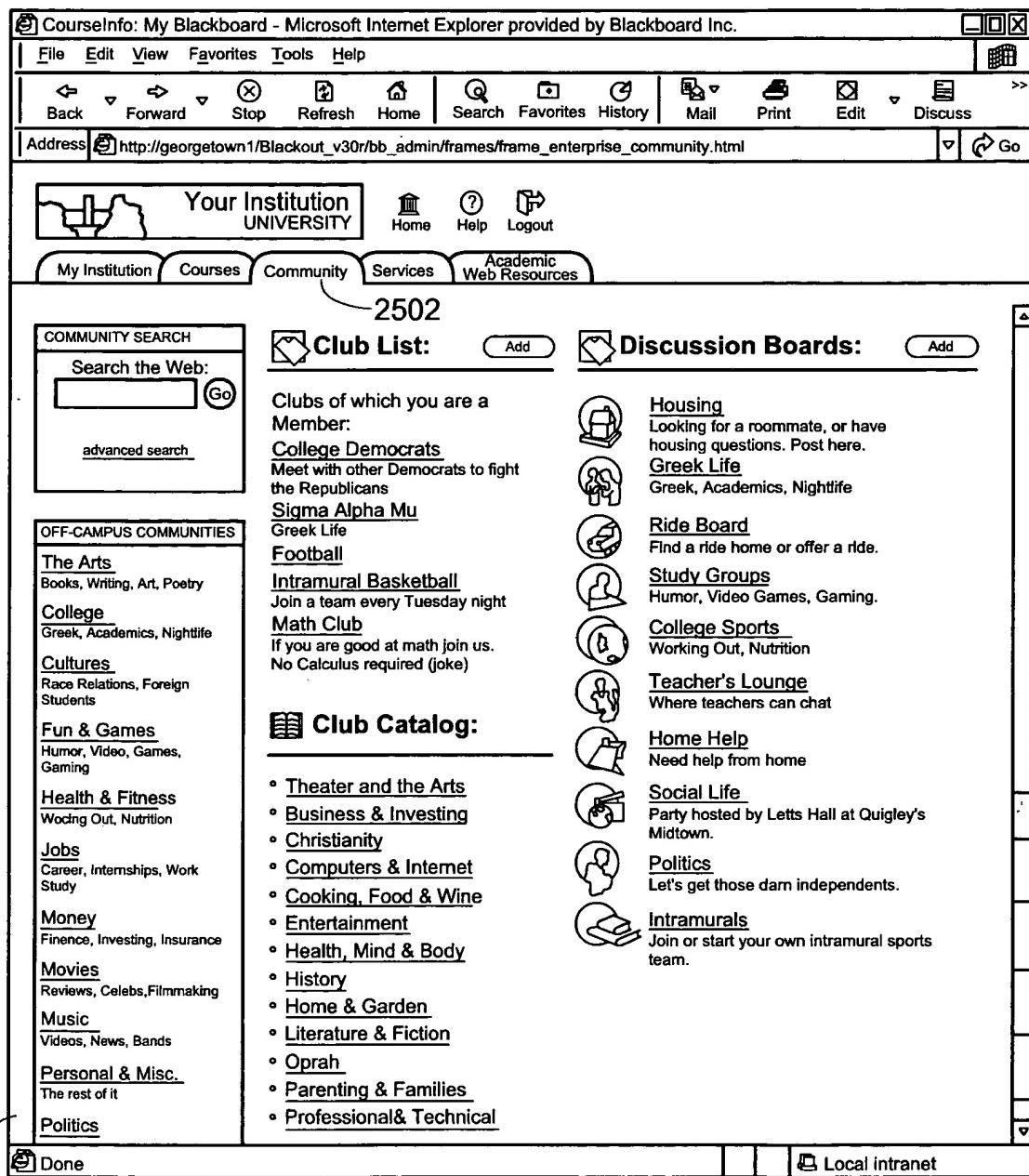
2433

2437 Postal Areas

2438 Manage Tabs 2440 Manage Tool Panel

Powered by Blackboard Trusted sites

FIG. 24

A screenshot of a Microsoft Internet Explorer browser window titled "CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc." The address bar shows the URL [http://georgetown1/Blackout\\_v30r/bb\\_admin/frames/frame\\_enterprise\\_community.html](http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_community.html). The page header includes standard navigation buttons like Back, Forward, Stop, Refresh, Home, Search, Favorites, History, Mail, Print, Edit, and Discuss. Below the header is a logo for "Your Institution UNIVERSITY" with links for Home, Help, and Logout. A horizontal menu bar includes "My Institution", "Courses", "Community", "Services", and "Academic Web Resources". A large number "2502" is displayed prominently. On the left side, there's a "COMMUNITY SEARCH" section with a search bar and a link to "advanced search". Below it is a "OFF-CAMPUS COMMUNITIES" section listing various groups: The Arts, College, Cultures, Fun & Games, Health & Fitness, Jobs, Money, Movies, Music, Personal & Misc., and Politics. In the center, there are three main sections: "Club List:", "Discussion Boards:", and "Club Catalog:". The "Club List:" section lists clubs like College Democrats, Sigma Alpha Mu, Football, Intramural Basketball, Math Club, and many more. The "Discussion Boards:" section lists boards like Housing, Greek Life, Ride Board, Study Groups, College Sports, Teacher's Lounge, Home Help, Social Life, Politics, and Intramurals. The "Club Catalog:" section lists categories such as Theater and the Arts, Business & Investing, Christianity, Computers & Internet, Cooking, Food & Wine, Entertainment, Health, Mind & Body, History, Home & Garden, Literature & Fiction, Oprah, Parenting & Families, and Professional & Technical. At the bottom of the page are "Done" and "Local intranet" buttons.

2500

FIG. 25

2602

**CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.**

**File Edit View Favorites Tools Help**

**Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss**

**Address:** http://georgetown1/Blackout\_v30r/bb\_admin/frames/frame\_enterprise\_services.html

**Your Institution UNIVERSITY**

**Home Help Logout**

**My Institution Courses Community Services Academic Web Resources Enterprise Admin**

**Institution Services:**

**OFF-CAMPUS SERVICES**

- [Financial Aid](#)
- [Department of Education Resources](#)
- [Financial Services](#)
- [Career Center](#)
- [Online job banks and resources](#)
- [Health](#)
- [Find doctors and health facts on the web.](#)
- [Health & Fitness](#)

**ACADEMIC LIFE**

[Academic Calendar](#) | [Academic Units](#) | [Academic Program and Research Units](#) | [Courses, Classes, and Exams](#) | [Graduate School](#) | [Summer Session](#) | [Undergraduate Admissions](#)

**COMPUTING SERVICES**

[University Information Technologies](#) | [HelpDesk](#) | [Network Status](#) | [Updating Telephone Directory](#) | [News & Events](#) | [ResNet](#) | [Rights and Responsibilities](#) | [University Web, Gopher, and FTP sites](#) | [Training](#) | [Technology Connection](#)

**THE UNIVERSITY CAMPUS**

[Athletics](#) | [Calendar of Events](#) | [Campus Events](#) | [Campus Life](#) | [Campus Maps](#) | [Campus Store](#) | [University Police](#) | [University Facts](#) | [Dining](#) | [Environmental Health and Safety](#) | [Health and Wellness](#) | [Housing](#) | [News](#) | [Transportation Schedules](#) | [Weather](#)

**STUDENTS LIFE AND ACTIVITIES**

[Calendar of Events](#) | [Career Opportunities](#) | [Student Organizations](#) | [University United Religious Work](#) | [Student Rideboatd](#) | [Student Services](#) | [University Electronic Directory](#)

**UNIVERSITY ADMINISTRATION**

[Employment Opportunities](#) | [Academic and Administrative Offices](#) | [Human Resources](#) | [Alumni Affairs and Development](#) | [Division of Financial Affairs](#) | [Project 2000](#) | [Office of the Senior Vice President and Chief Financial Officer](#) | [Office for Purchasing Services](#) | [Transportation and Mail Services](#) | [University Administration](#) | [University Assemblies](#) | [University Policies and Procedures](#)

**SURROUNDING COMMUNITY**

[Dining and Entertainment](#) | [Transportation Schedules](#)

**Done Local intranet**

2600

**FIG. 26**

**CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.**

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss >>

Address: http://georgetown1/Blackout\_v30r/bb\_admin/frames/frame\_enterprise\_myblackboard.html

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

**TOOLS**

- Home
- E-Mail
- Announcements
- Calendar
- Tasks
- User Directory
- Address Book
- Course Grades
- Personal Info

**Calendar** Show All

Add Event Quick Jump

VIEW DAY VIEW WEEK VIEW MONTH

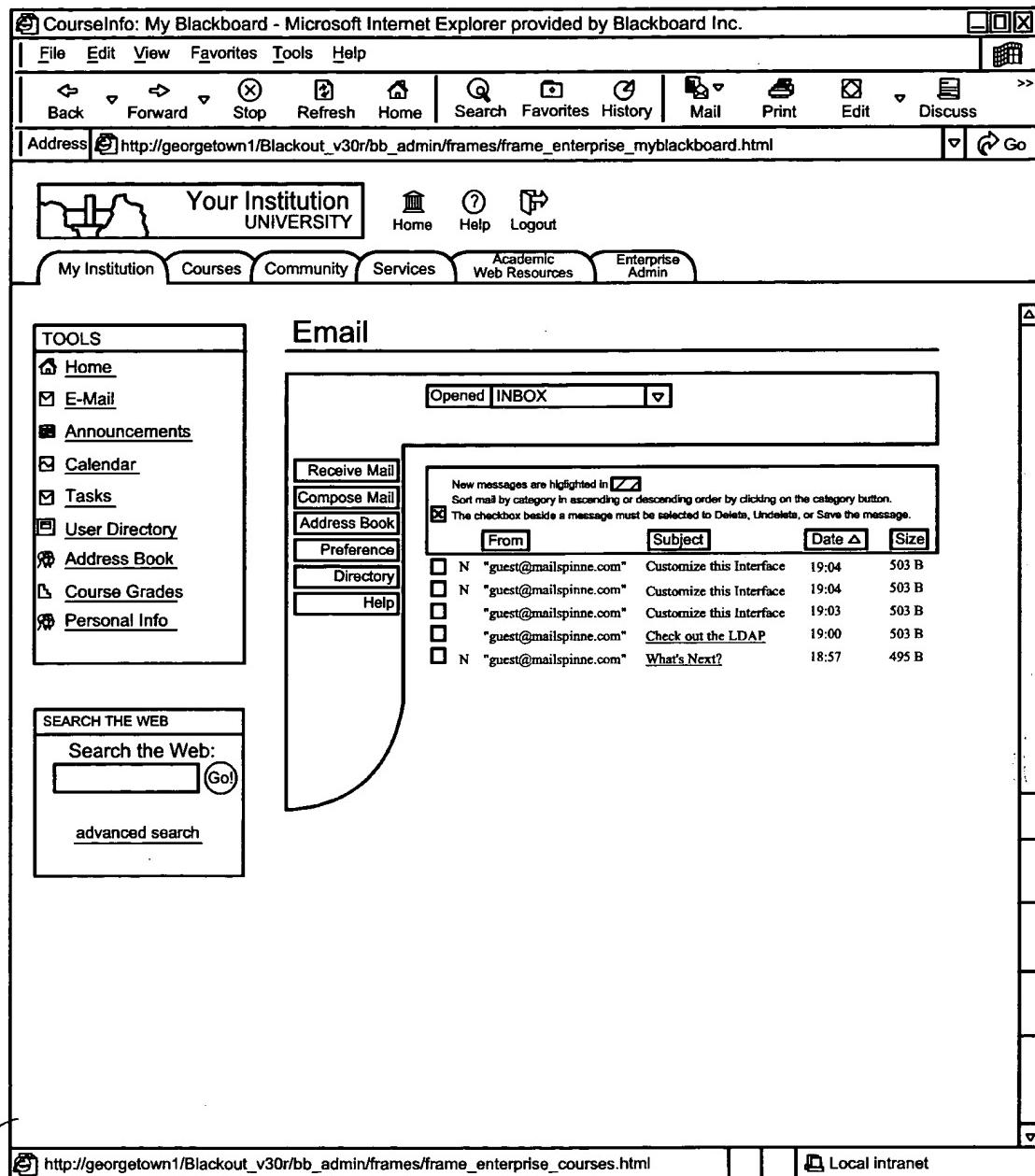
<< Wednesday, March 1, 2000 >>

|    |       |
|----|-------|
| AM | 6:00  |
|    | 6:30  |
|    | 7:00  |
|    | 7:30  |
|    | 8:00  |
|    | 8:30  |
|    | 9:00  |
|    | 9:30  |
|    | 10:00 |
|    | 10:30 |
|    | 11:00 |
|    | 11:30 |
| PM | 12:00 |
|    | 12:30 |
|    | 1:00  |
|    | 1:30  |
|    | 2:00  |
|    | 2:30  |

Local intranet

2700

FIG. 27



2800

FIG. 28

FIG. 29

33/57

2900

**CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig**

File Edit View Favorites Tools Help

Back Search Favorites History

Address: http://blackout.blackboard.com/bb\_admin/frames/frame\_enterpriseadmin.html

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

ADMINISTRATION PANEL >CREATE NEW COURSE

**Create A New Course**

**(1) Course Information**

Course Name:

Course ID:

Description:

**(2) Course Design**

Button Type: Pattern

Button Shape:  Rectangular  Rounded Ends  Rounded Corners

Button Style: Course Information   
Gallery of Buttons

**(3) Course Options**

Select Type: Subject Area:

Discipline: General

Guest Access:  Guests are allowed to visit this course.  
 Guests are not allowed to visit this course.

Internet

Start pcANYWHERE Inbox-Microsoft Exploring-Desk Text on BB.Sd... CourseInfo My Black Fig.O doc Micr...

3:37 PM

2900

**CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig**

File Edit View Favorites Tools Help

Back Search Favorites History

Address: http://blackout.blackboard.com/bb\_admin/frames/frame\_enterpriseadmin.html

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Guest Access:  Guests are allowed to visit this course.  
 Guests are not allowed to visit this course.

Available:  Yes  No

Select Course Catalog

Course Cartridge: (optional) Please enter your Course Cartridge Access Key:   
If you do not have an Access Key, please visit <http://cartridges.blackboard.com> to locate a Course Cartridge.

Instructor:  Instructor ID:  List Users  
 Create New Instructor

**(4) Submit**

Click "Submit" to finish. Click "Cancel" to end this process.

Cancel Submit

Internet

Start pcANYWHERE Inbox-Microsoft Exploring-D Text on BB.Sd... CourseInfo Fig.O doc Micr... Document 20... Document 21... Document 22...

3:38 PM

3000

**① Personal Information**

\*First Name: [ ]  
 Middle Name: [ ]  
 \*Last Name: [ ]  
 \*E-mail: [ ]  
 Student ID: [ ]

**② Account Information**

\*User Name: [ ]  
 \*Password: [ ]  
 \*Verify Password: [ ]

**③ Other Information**

Start pcANYWHERE Inbox - Microsoft Exploring - Desk Text on BB.5d... CourseInfo My Black Fig.D doc Micr... Document 20... Document 21... Fig.P doc Micr... Fig.C doc Micr... Internet 3:18 PM

3000

**Gender:**  Male  Female  
**Birthday:** January  1  19  76  
**Education:** Undergraduate Student   
**Company:** [ ]  
**Department:** [ ]  
**Job Title:** [ ]  
**Address:** [ ]  
**Address:(cont)** [ ]  
**City:** [ ]  
**State / Province:** [ ]  
**Zip / Postal Code:** [ ]  
**Country:** [ ]  
**Web Site:** [ ]  
**Home Phone:** [ ]  
**Work Phone:** [ ]

Start pcANYWHERE Inbox - Microsoft Exploring - D Text on BB.5d... CourseInfo..My Fig.D doc Micr... Document 20... Document 21... Fig.P doc Micr... Fig.C doc Micr... Internet 3:18 PM

FIG. 30A

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search History Home Help Logout

Address: http://blackout.blackboard.com/bb\_edm/faces/frame\_enterpriseadmin.html Go

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Work Phone: [Text Box]

Work Fax: [Text Box]

Mobile Phone: [Text Box]

### ④ Role and Availability

Primary Institution Role: Student

Administrative User Role:  
 If you would like user to have an administrative role, please select the role:  
 (Note: Administrative Access grants the user access to the Administration Control Panel)

None    System Admin    System Support  
 Course Creator    Account Administrator

### ⑤ Submit

\*-Required Field for Form Entry

Click "Submit" to finish. Click "Cancel" to end this process.

Cancel Submit

Start pcANYWHERE Inbox- Microsoft Exploring- Desk Text on BB.5d... CourseInfo: My Blackboard Document 20... Document 21... Fig.O doc Micr... Fig.P doc Micr... Fig.C doc Micr...

FIG. 30B

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address: http://georgetown1/Blackout\_v30r/bb\_admin/frames/frame\_enterprise\_webresources.html

Your Institution UNIVERSITY

Home Help Logout 3102

My Institution Courses Community Services Academic Web Resources Enterprise Admin

**ACADEMIC RESOURCES**

- [Almanacs](#)
- [Dictionaries](#)
- [Country Profiles](#)
- [Encyclopedia](#)
- [Libraries](#)
- [Maps](#)
- [Periodicals](#)
- [Phone Numbers](#)
- [Quotations](#)
- [Statistics](#)
- [Thesauri](#)
- [Web Directories](#)

**COURSE SITE RESOURCES**

- [Intro to Music](#)
- [Art History](#)
- [Intro to Space](#)
- [Team Leadership](#)

**Categories**

- [Art/Music](#)
- [Business](#)
- [Computer/Engineering](#)
- [Computer/IT](#)
- [Education](#)
- [Health & Medicine](#)
- [Hobbies](#)
- [Languages](#)
- [Legal](#)
- [Literature/Linguistics](#)
- [Mathematics](#)
- [Physical Education](#)
- [Sciences](#)
- [Social Sciences](#)
- [Vocational](#)

**DISCIPLINES**

- [Art/Engineering](#)
- [Computer/IT](#)
- [Education](#)
- [Health & Medicine](#)
- [Hobbies](#)
- [Languages](#)
- [Legal](#)
- [Literature/Linguistics](#)
- [Mathematics](#)
- [Physical Education](#)
- [Sciences](#)
- [Social Sciences](#)
- [Vocational](#)

To access all the discipline-specific academic resources, choose a category from the list to the left.

Done Local intranet

3100

FIG. 31

**CourselInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.**

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address: http://georgetown1/Blackout\_v30r/bb\_admin/frames/frame\_enterprise\_webresources.html

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

### Social Sciences and Social Study: History

- [Login](#)
- [Customize](#)
- [Help & Support](#)
- [About Bb.Inc.](#)

**Vietnam Starts Marking 1975 Battle Victories**  
Mar 10 - The Washington Times  
HANOI - Vietnamese started celebrating yesterday the 25th anniversary of the victory of communist troops in the key town of Bam Me Thuot - a battle that marked the beginning of the end of the Vietnam War.[FULL STORY](#)

**U.S. must support democracy - not just the military in Colombia**  
Mar 10 - The Washington Times  
The March 7 article "Homes, land abandoned as civil war continues" makes reference to how Colombia's civil war between leftist guerrillas and government security and paramilitary groups has expanded to the point where noncombatants are being affected.[FULL STORY](#)

**F16s needed**  
Mar 10 - The Dominion  
The RNZAF needs the most modern aircraft available to maintain the skills necessary for its attack and strike capability, not only for defence but to assist our close allies.[FULL STORY](#)

**Reunion plain sailing**  
Mar 10 - Waikato Times  
A perfect landing started a perfect reunion when World War II pilot Dusty Miller watched an immaculately rebuilt 1940 Hawker Hurricane touch down at Wanaka Airport yesterday.[FULL STORY](#)

**Poor site testing "threatens heritage"**  
Mar 10 - The Irish Times  
Archaeological treasures in the Republic are at risk of being destroyed because of inadequate site-testing by archaeologists, according to a report published yesterday.

**Research Center**

**Periodical Search:**

Boolean Search  
 Natural Language Search

Search all articles  
 Search only this discipline

**Browse by Topic:**

[Early National Period](#)  
[Great Depression](#)  
[Jacksonian America](#)  
[Labor Movement](#)  
[The Cold War](#)  
[Vietnam War](#)  
[World War I](#)  
[World War II](#)

**Web Search:**

**Communities**

**Social Sciences and Social Study for Students**

- [Discussion Boards](#)
- [Learn about my civilization](#)

Done Local Intranet

**Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Address set.jsp?tab=courses&url=/bin/common/course.p1?course\_id=2 Go Links Blackboard ASP Web Tools Crystal Report Viewer

Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

COURSES >PATENT >COMMUNICATIONS >COLLABORATION

**Collaboration Sessions**

Filter: Search By: Session Name Start Date End Date (MM DD YY)  
Show All GO Search

Displaying sessions 1-2 of 2

| Session Name | Tool              | Start Date | End Date |      |
|--------------|-------------------|------------|----------|------|
| Lecture Hall | Virtual Classroom |            |          | Join |
| Office Hours | Lightweight Chat  |            |          | Join |

2 Sessions Displaying sessions 1-2 OK

3302      3304

Powered by Blackboard Internet

3300

FIG. 33A

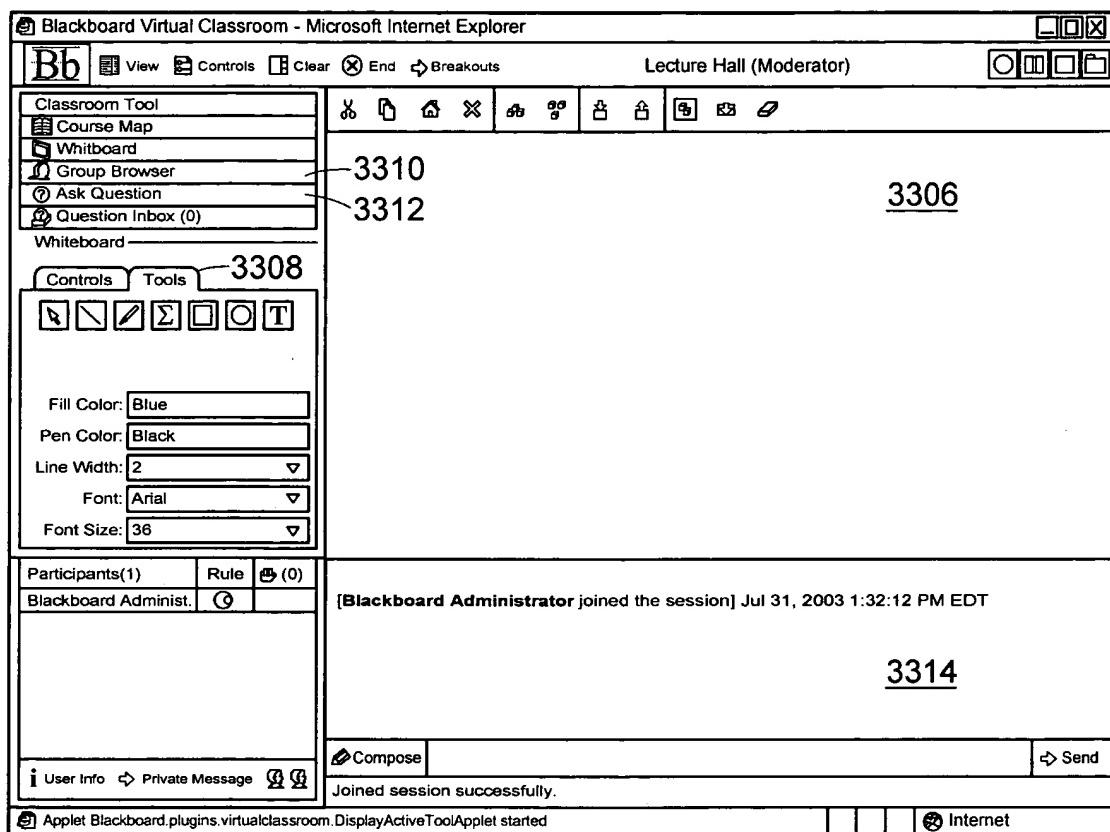


FIG. 33B

## Linking to the E-Commerce Server

Myserver. blackboard.com

|                    |
|--------------------|
| 100                |
| Ready to checkout? |
| OK                 |

BLOCK 120

The link to butter passes the following information:

**name:** Name of the purchaser

**address\_1**

**address\_2**

**city**

**state**

**zip**

**country**

**price:** price in USD that the user is being asked to pay

**order-id:** null if butter should generate an order number (default)

**order-descr:** Text description of what the user is buying;

**url:** The location the referring server that butter should return the user to after the payment process is complete

hyperlink

Butter blackboard.com  
Linux Apache Red CGI

FIG. 34

## First E-Commerce Screen Display

Butter.blackboard.com

The screenshot shows a Netscape browser window with the URL [Butter.blackboard.com](http://Butter.blackboard.com). The page title is "Blackboard.com™". The main content area contains a large "Bb" logo. Below it, there are links for "About Blackboard.com", "Help & Support", and "Home". A "Payment Information" section contains the following text:

The fourth step is to the required payment information and click Purchase! After a few seconds, you will be given a receipt confirming your payment. Please note that Blackboard.com uses a secure connection for its online transactions, so there is no need to worry about entering your credit card number online.

Prices listed below are in United States dollars.

Below this, there are two sections: "Purchase Summary" and "Credit Card Information". The "Purchase Summary" section shows:

|                  |                 |
|------------------|-----------------|
| Chosen Services: | Registration    |
| Purchase Number: | 981214001104682 |
| Total Price:     | \$100.00        |

The "Credit Card Information" section contains fields for:

|                             |   |
|-----------------------------|---|
| Credit Card Type:           | <input checked="" type="radio"/> MasterCard |
| Card Number:                | <input type="text"/>                        |
| Expiration Date:            | <input type="text"/> (mm/yy)                |
| Name as it appears on card: | David Young                                 |
| Billing address:            | <input type="text"/> 7777                   |
| City:                       | <input type="text"/> 7777                   |
| State or Province:          | <input type="text"/> 77                     |
| Zip / Postal Code:          | <input type="text"/> 08114                  |
| Country:                    | <input type="text"/> USA                    |

A "Purchase" button is located at the bottom right of the "Credit Card Information" section. A note at the bottom left of the page reads: "(Please be patient. It may take up to one minute to process your credit card.)"

3502  
3504  
3506

41/57

Whatever user info is available is populated from the data passed from the previous page.

The unique order number displayed is dynamically generated by the server.

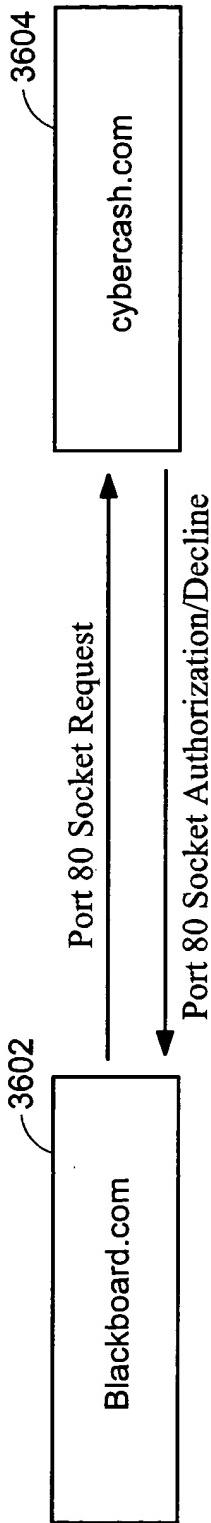
The Chosen services and price displayed are passed in from the previous screen.

The look and feel of this plate (and all butter e-commerce pages) can be modified by an HTML template. This template is selected as one of the script parameters.

3500

FIG. 35

## Authorization Process



- The authorization process takes a minute or so.
- If the card is rejected, a page like the one at right is displayed.
- If the card is accepted, the payment goes through, and the page on the next slide is shown.

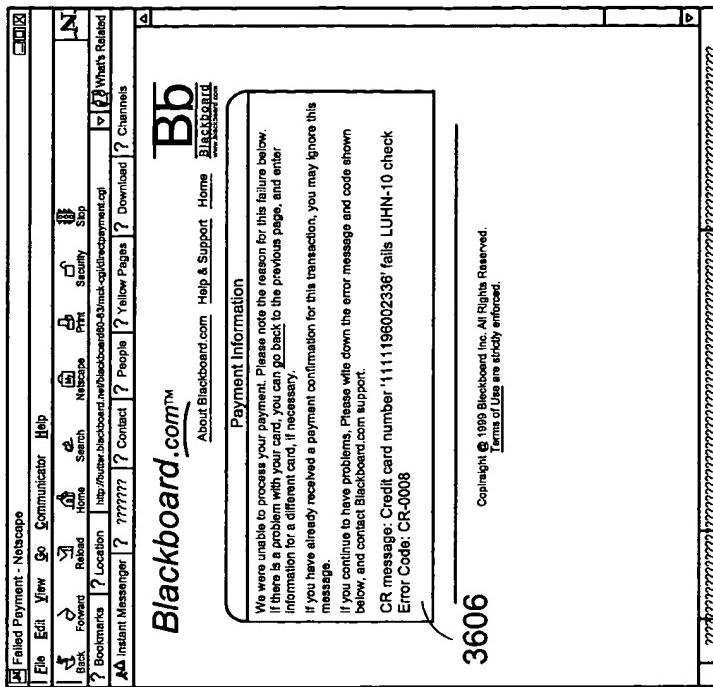


FIG. 36

## Second E-Commerce Screen Display

Butter.blackboard.com

|  |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
|--|--|-----------------------------|--|--|--|---------------------------------|--|---|--|---------------------|--|--|--|------------------------------------|--|
|  <b>Blackboard.com™</b>   |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| <a href="#">About Blackboard.com</a> <a href="#">Help &amp; Support</a> <a href="#">Home</a> <a href="#">Blackboard</a>  |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| <b>Payment Information</b>   |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| <small>Thank you for your payment. Below you will a purchase confirmation number for your order. Please print this page, or copy this down for your record. When you are done, click continue to course.</small>   |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| <table border="1"> <tr> <td colspan="2"><b>Confirmation Details</b></td> </tr> <tr> <td colspan="2">Chosen Services: Registered Course: auditedclass123456 (\$100)</td> </tr> <tr> <td colspan="2">Purchase Number: 99121401104692</td> </tr> <tr> <td colspan="2">Credit Card: BACKDOOR (Partial number shown for security)</td> </tr> <tr> <td colspan="2">Total Price: 100.00</td> </tr> <tr> <td colspan="2"> <u><a href="#">YOU MUST CLICK HERE TO RECEIVE THE SERVICES YOU PURCHASED</a></u> </td> </tr> <tr> <td colspan="2"> <a href="#">Continue to Course</a> </td> </tr> </table> |  | <b>Confirmation Details</b> |  | Chosen Services: Registered Course: auditedclass123456 (\$100) |  | Purchase Number: 99121401104692 |  | Credit Card: BACKDOOR (Partial number shown for security) |  | Total Price: 100.00 |  | <u><a href="#">YOU MUST CLICK HERE TO RECEIVE THE SERVICES YOU PURCHASED</a></u> |  | <a href="#">Continue to Course</a> |  |
| <b>Confirmation Details</b>  |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| Chosen Services: Registered Course: auditedclass123456 (\$100)   |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| Purchase Number: 99121401104692  |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| Credit Card: BACKDOOR (Partial number shown for security)  |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| Total Price: 100.00  |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| <u><a href="#">YOU MUST CLICK HERE TO RECEIVE THE SERVICES YOU PURCHASED</a></u>   |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| <a href="#">Continue to Course</a>   |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |
| <small>Copyright © 1999 Blackboard Inc. All Rights Reserved.<br/>Terms of Use are strictly enforced.</small>   |  |                             |  |  |  |                                 |  |   |  |                     |  |  |  |                                    |  |

3702

3704

3700

Payment is authorized and queued at Cybersash,  
Inc for processing.

The payment will go through and appear in  
Blackboard's Cybersash account within 12  
hours.

There is no way that the user can back out at this  
point without Blackboard issuing a manual  
refund.

No services are provided yet. The user must  
follow the link at the bottom of the page, or he  
will receive nothing for his money.

All links on this page are disabled except the one  
that says :YOU MUST CLICK HERE". This  
prevents users from failing to get their orders  
filled.

A authorization code is calculated by the script as  
a secure hash of the purchase price, the order id,  
and a secret number.

FIG. 37

## Returning to the Originating Server

Butter.blackboard.com

The screenshot shows a payment confirmation page from Butter.blackboard.com. At the top, there's a navigation bar with links for 'File', 'Edit', 'View', 'Search...', 'Help', and 'Logout'. Below the navigation, there's a form with fields for 'First Name', 'Last Name', 'Address', 'City', 'State', 'Zip', and 'Country'. A 'Credit Card' section includes fields for 'Card Number', 'Expiry Date', 'CVV2/CVC2', and 'Cardholder Name'. A 'Comments' section has a 'Comments' field and a 'Save' button. At the bottom, there's a 'Payment Information' section with a note about payment methods and a 'Confirmation Details' section with a note about security.

**3802**

- The link at the bottom of the page points back to the referring server using the location passed in the URL parameter to the first butter script.
- The authorization code, the order id and a subset of the credit card digits (show\_card) are passed back as parameters.

- The authorization code should be checked upon return by making an identical hash calculation. If the two hash values match, the order should be fulfilled, otherwise, and error should be shown.

3800

myserver.blackboard.com

FIG. 38

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address ?tab=courses&url=/bin/common/course\_pf?course\_id=2\_1 Go Links Customize Links Windows Media Windows

Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

COURSES > TEST > CONTROL PANEL > COURSE DOCUMENTS > ADD CONTENT

### Add Content

**① Content Information**

Name: Course Documents 3910  
or specify your own name: 3912

Choose Color of Name: 3914

Text:  
This is an equation placeholder: <88  
[0]"SummationExample" | 100>  
3920

3916

3904  
3902 3906

3900

Smart Text Plain Text HTML

**② Content Attachments**

Powered by Blackboard Trusted sites

FIG. 39

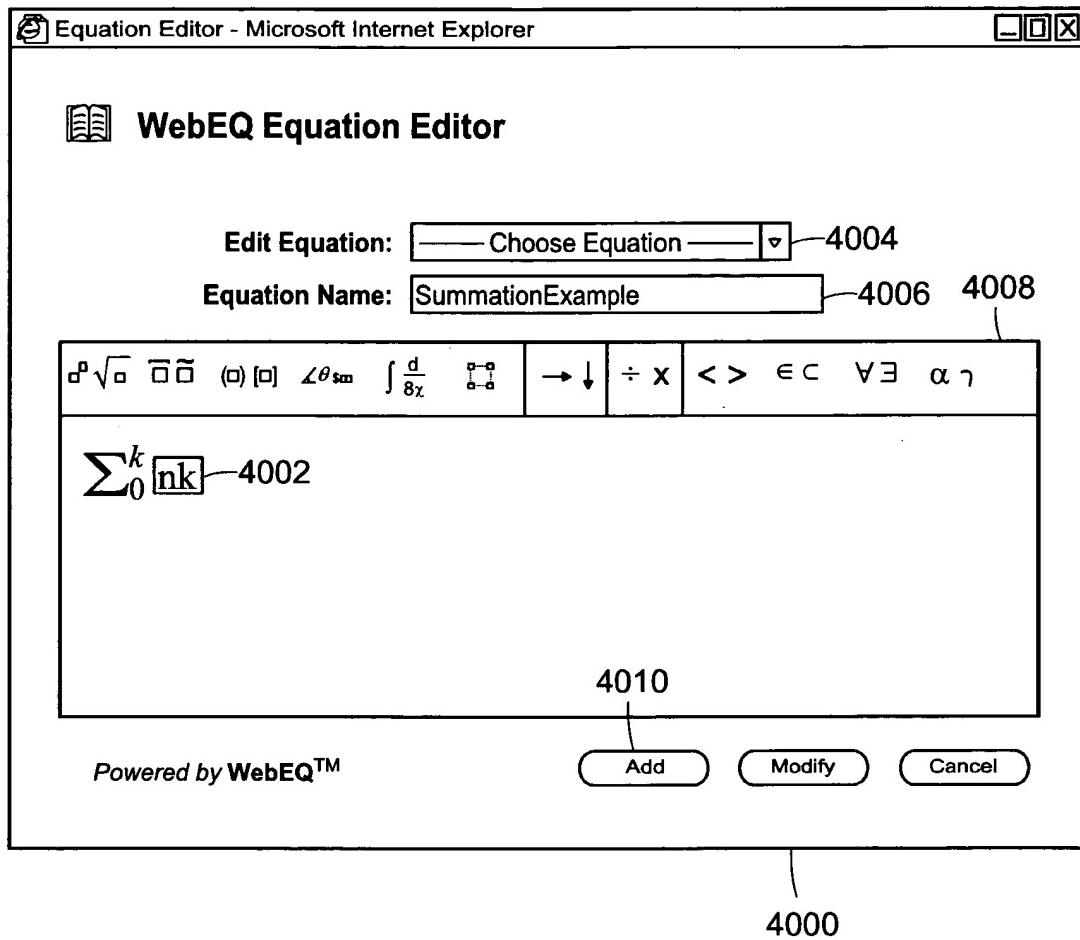


FIG. 40

Blackboard Learning System TM (Release 6) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Home Search Favorites Media Links Customize Links Windows Media Windows

Address ?tab=courses&url=/bin/common/course.p?course\_id=\_2\_1 Go Links Customize Links Windows Media Windows

Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

Announcements Course Information Staff Information Course Documents Assignments Communication Discussion Board External Links Tools

Course Map Control Panel Quick Unenroll

COURSES > TEST > COURSE DOCUMENTS

Course Documents

This is an equation placeholder:  $\sum_0^k nk = 4102$

Powered by Blackboard Trusted sites

4100

RENDERED DATA

FIG. 41

**① Content Information**

Name: Course Documents 3910  
or specify your own name: 3912  
Choose Color of Name:  Pick

**Text:**  
 This is a template. Here is a 8x8link('link')8x8 to additional data. Here is a custom text object:  
 8x8content\_block( some\_id, type-spec)8x8  
 An equation placeholder: <88[0|"equation\_0\_1"|1]88>

3904  
3902 | 3906

4202  
3916

Smart Text  Plain Text  HTML  Preview

**② Content Attachments**

Files may be attached to the above information. Click the Browse button to select the file to attach from your computer. Also, specify a name of the link to this file.

File to Attach:

Powered by Blackboard Internet

4200

FIG. 42

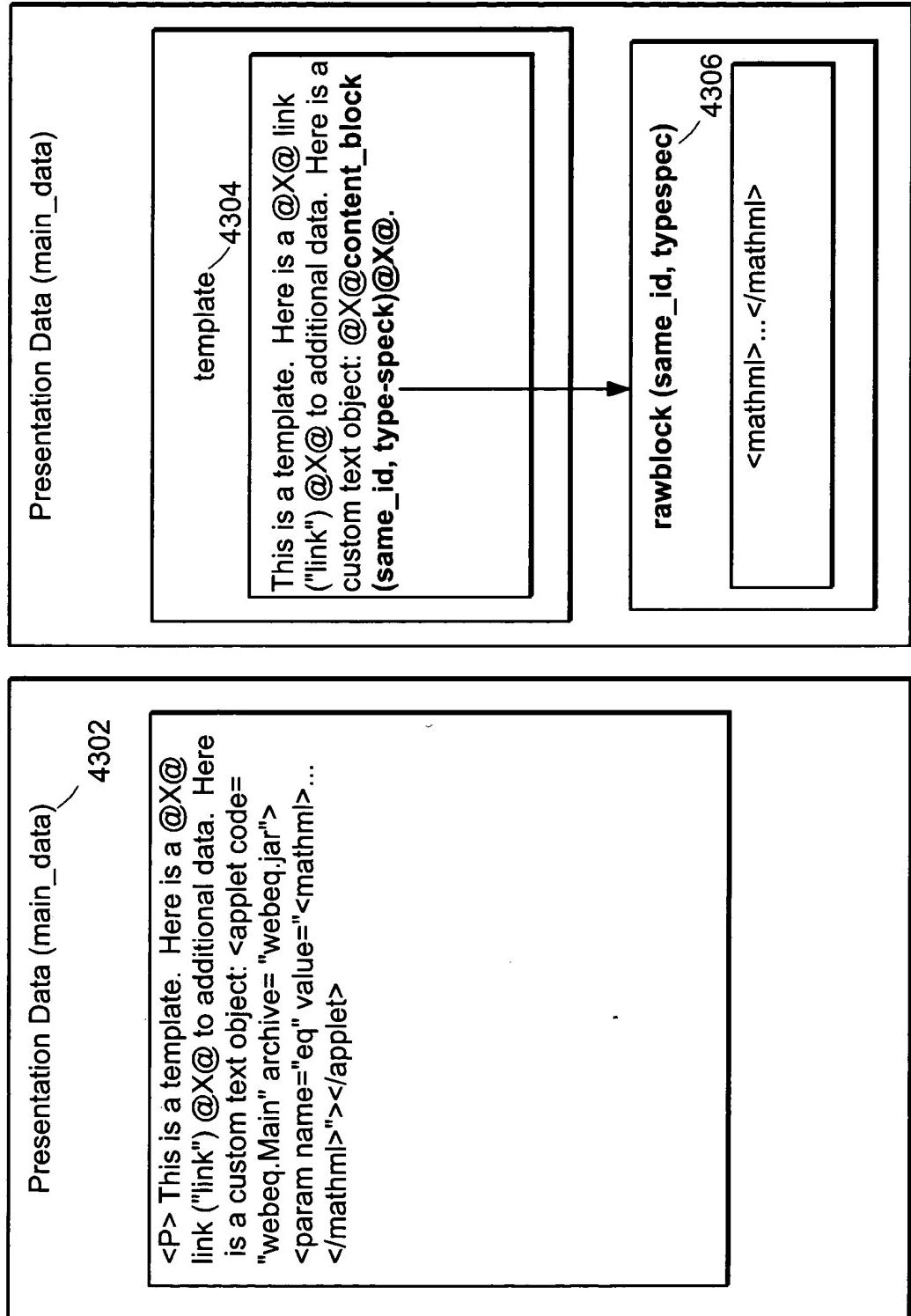


FIG. 43

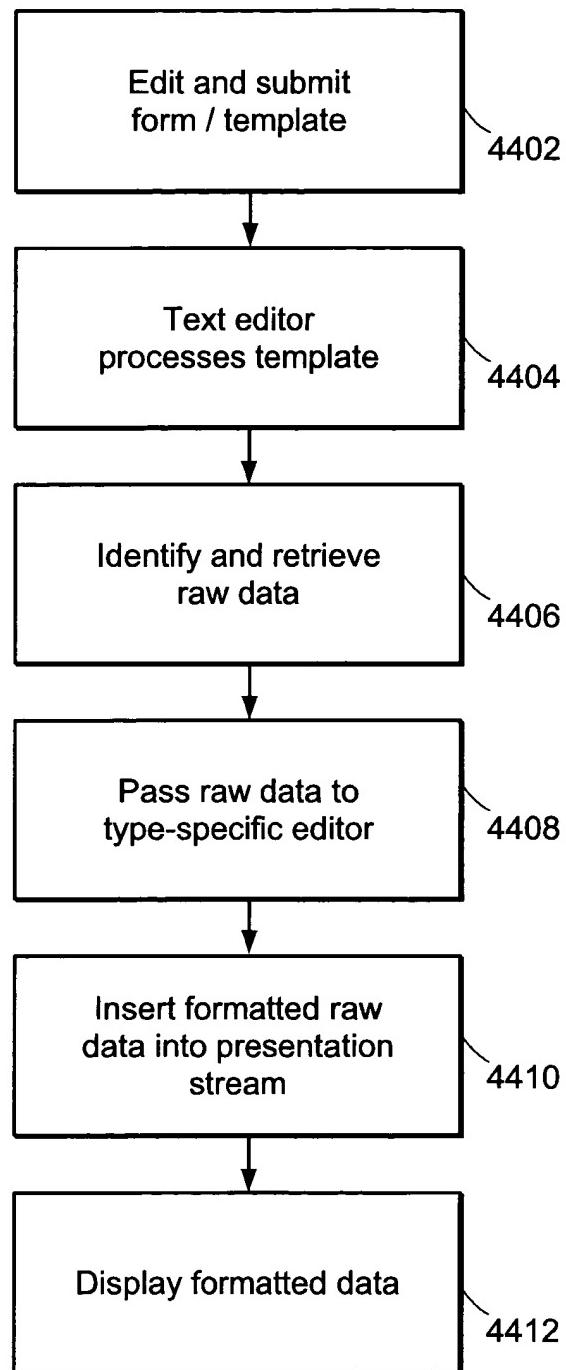


FIG. 44

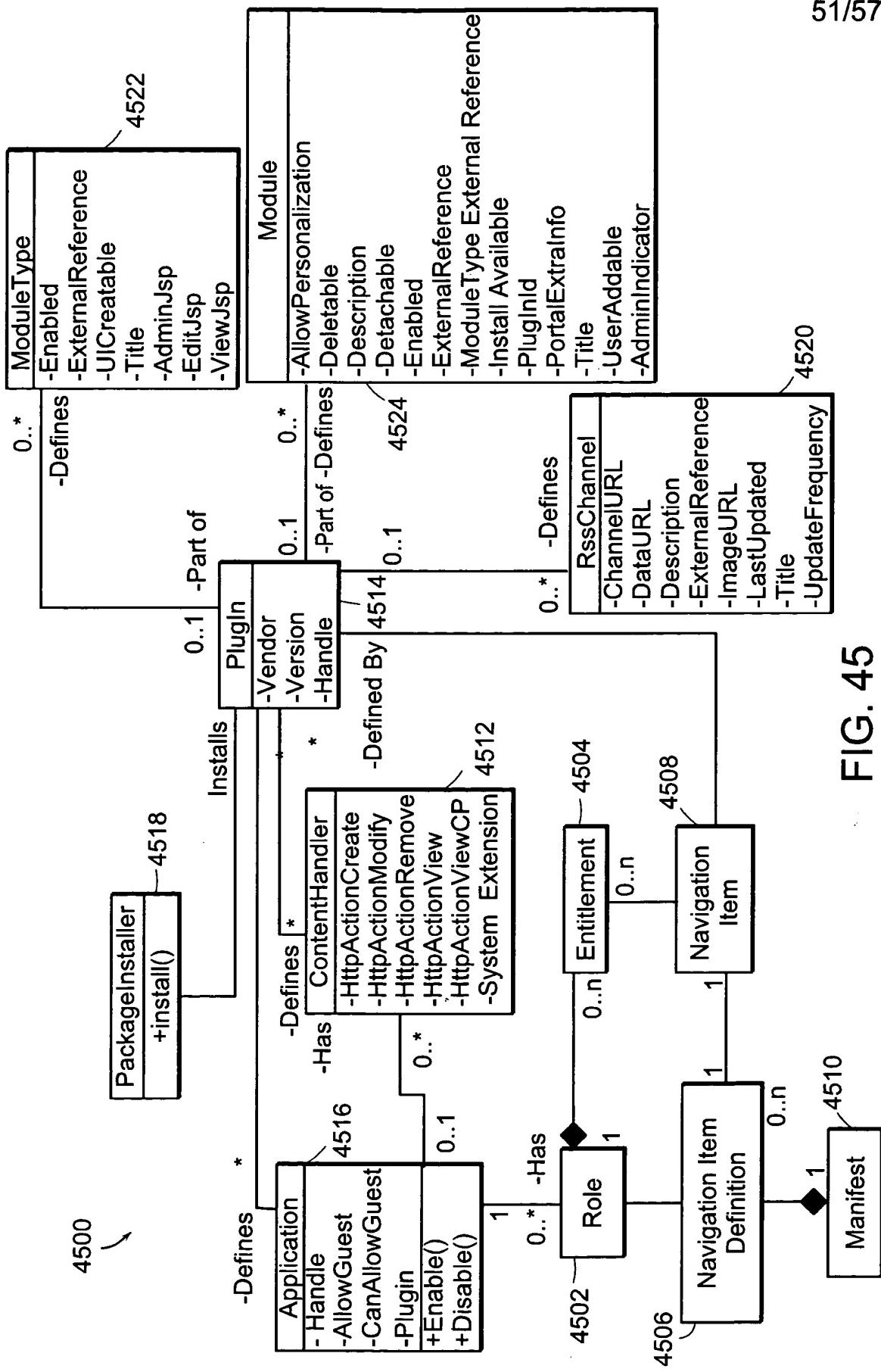


FIG. 45

4600



| User Name |       |      | Role(s) | Entitlement                     |
|-----------|-------|------|---------|---------------------------------|
| Last      | First | M.I. |         |                                 |
| Jones     | Allan | S.   | A,I     | Course, modify calendar, modify |
| Smith     | Jane  | T.   | C,T     | Course, modify calendar, modify |
| ⋮         |       |      |         |                                 |
| Lee       | Alex  | Y.   | O.      | Course.view                     |

FIG. 46

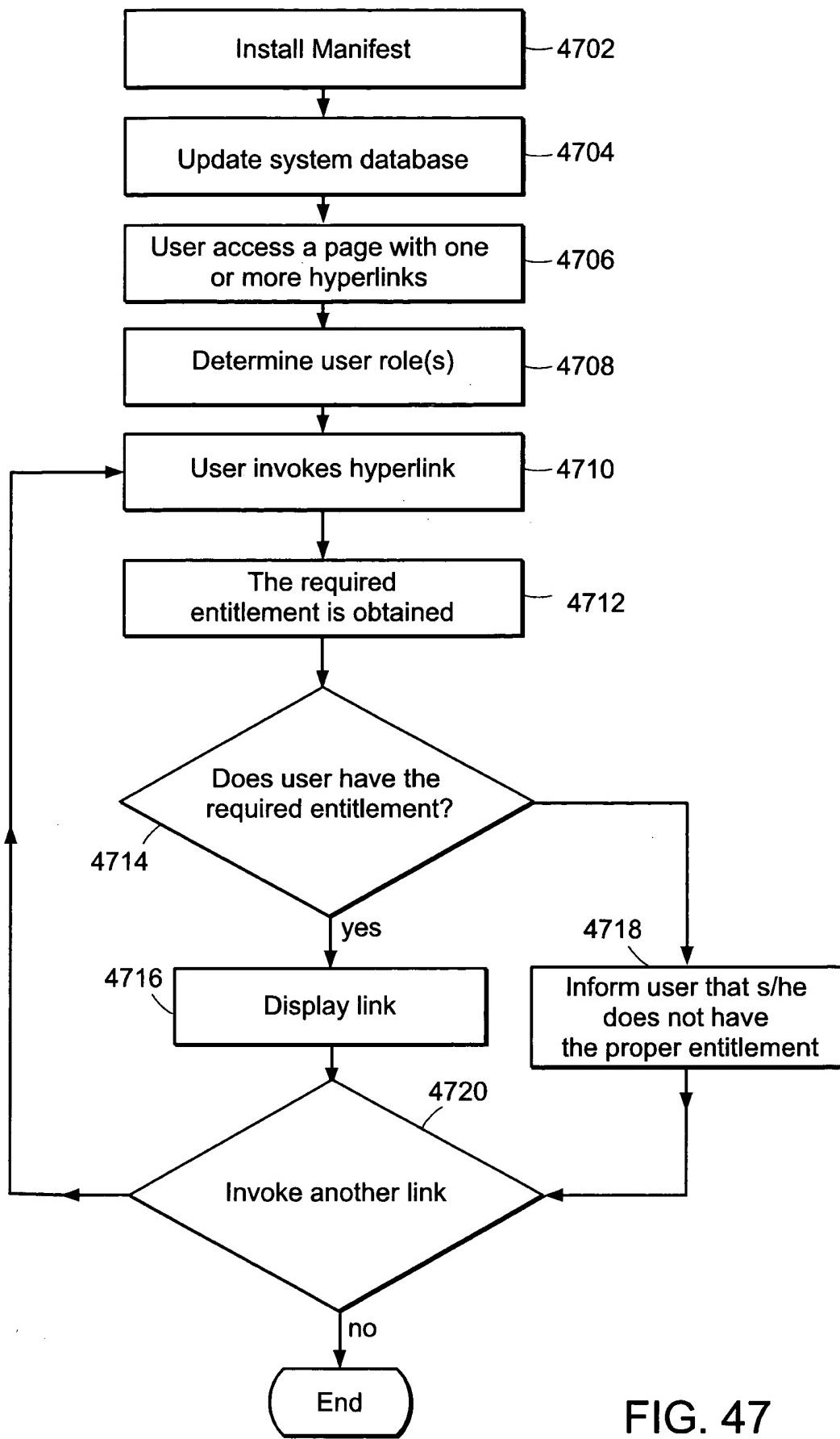


FIG. 47

4802

**Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports

Address http://localhost/webapps/portal/frameset.jsp?tab\_id=7\_1 Go

Google Search Web Search Site Search Groups News Page Bank Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

ADMINISTRATION PANEL > MANAGE SYSTEM EXTENSIONS

### Manage System Extensions

Install Extension Download Extension

Installed System Extensions

| Name                              | Vendor                              | Version | Status    | Action  |
|-----------------------------------|-------------------------------------|---------|-----------|---|
| Astrology                         | Astrology.com                       | 1.0.1   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| CNNModules                        | CNN                                 | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| GoogleModule                      | Google                              | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| HETemplateModules                 | Blackboard Inc.                     | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| Maps                              | Mapquest                            | 1.0.2   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| New York Times                    | New York Times                      | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| Time                              | Time                                | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| Travel                            | Expedia                             | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| WeatherModule                     | Weather.com                         | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| Zap2itModules                     | Zap2it                              | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| AOI WYSIWYG Editor                | AOI Systems                         | 2.5.8   | Available | <a href="#">View Components</a> <a href="#">Properties</a> <a href="#">Remove</a> |
| Blackboard Course Creation Wizard | Blackboard Research and Development | 1.0.1   | Available | <a href="#">View Components</a> <a href="#">Properties</a> <a href="#">Remove</a> |

OK

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4800

FIG. 48

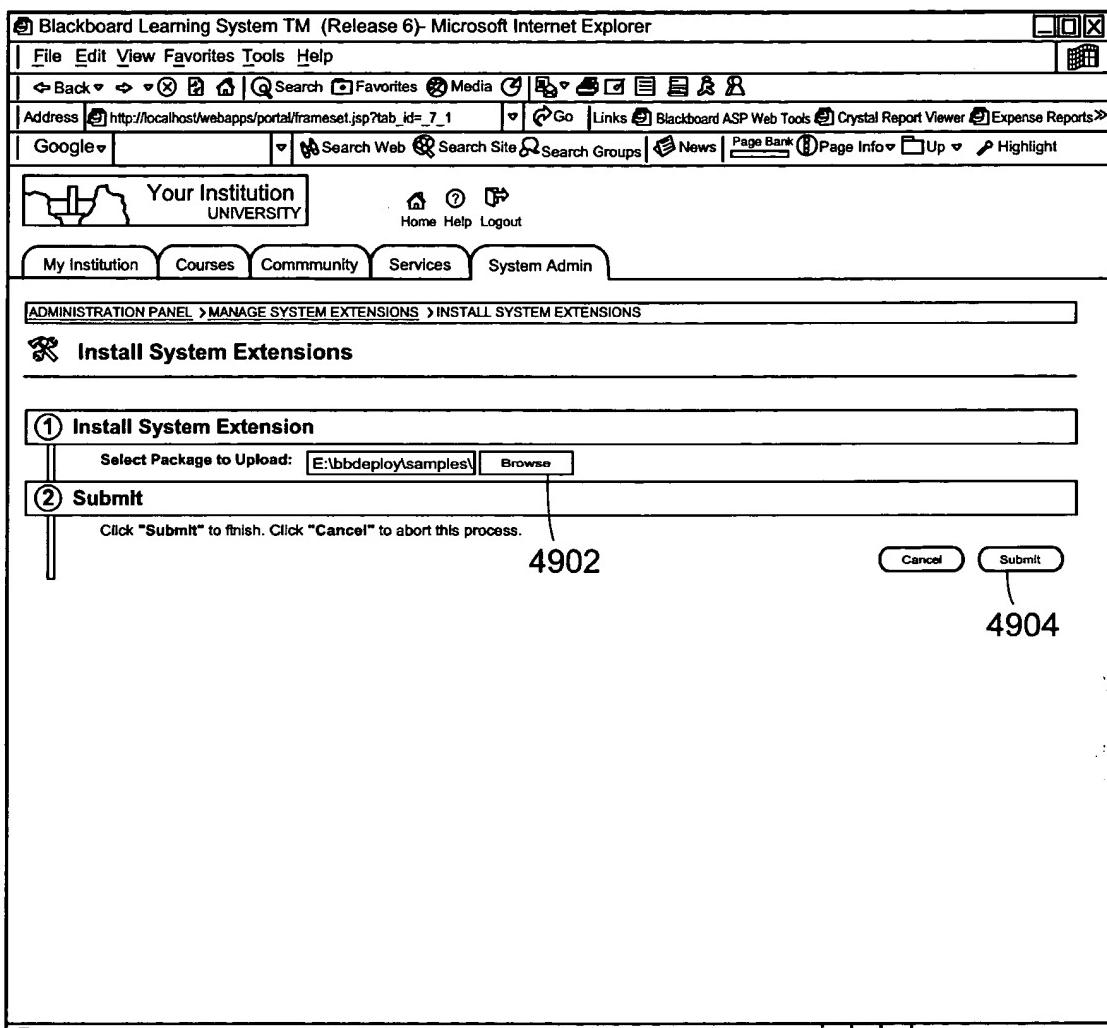
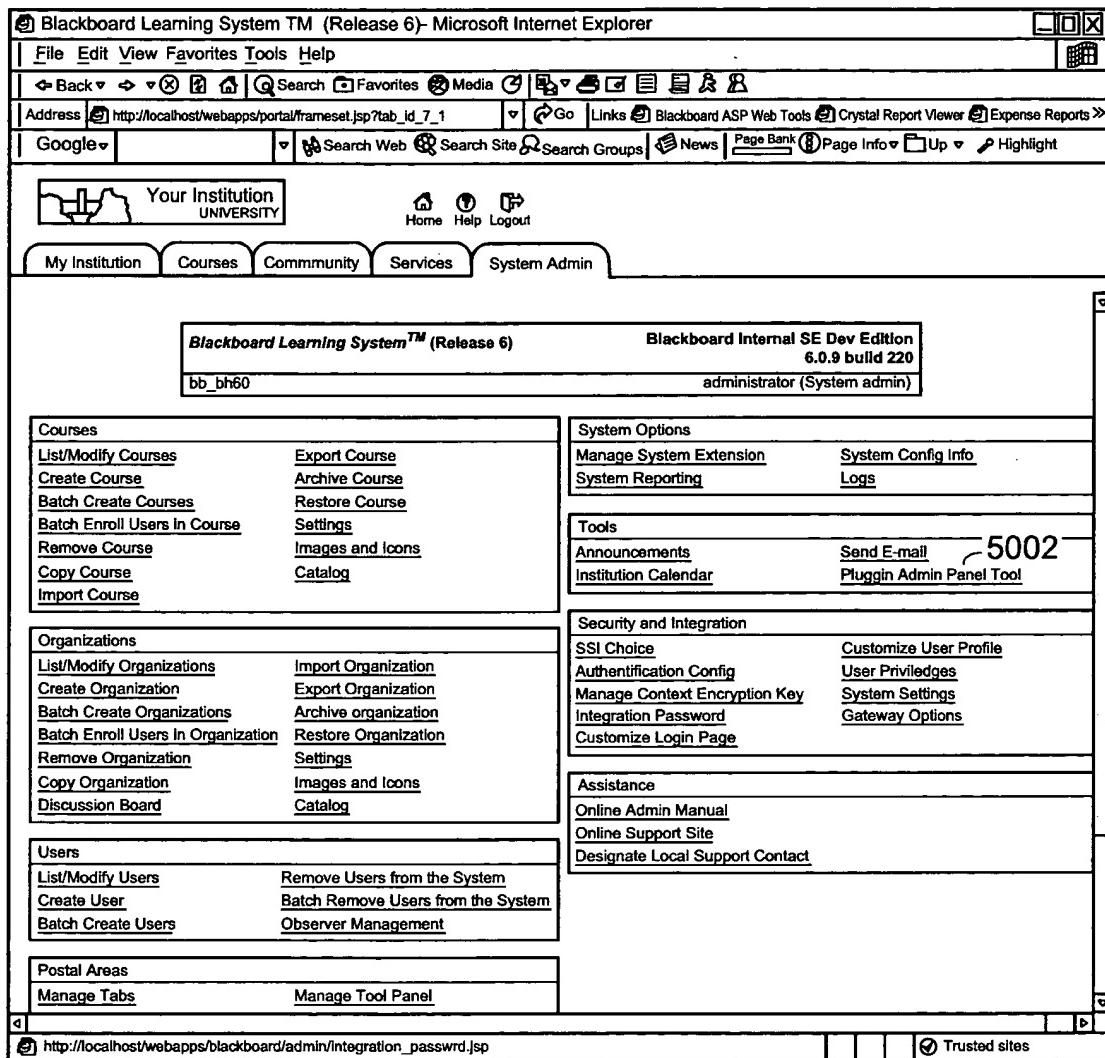


FIG. 49



5000

FIG. 50

**Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back → Forward ↻ Stop ↻ Refresh ↻ Search ↻ Favorites ↻ Media ↻ Home ↻ Links ↻ Blackboard ASP Web Tools ↻ Crystal Report Viewer ↻ Expense Reports ↻

Address: http://localhost/webapps/portal/frameset.jsp?lab\_id=\_7\_1 Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports

Google ↻ Search Web ↻ Search Site ↻ Search Groups ↻ News ↻ Page Bank ↻ Page Info ↻ Up ↻ Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

ADMINISTRATION PANEL > MANAGE SYSTEM EXTENSIONS

### Manage System Extensions

Install Extension Download Extension

Installed System Extensions

| Name                              | Vendor  | Version | Status    | Action  |
|-----------------------------------|---|---------|-----------|---|
| Astrology                         | <a href="#">Astrology.com</a>                       | 1.0.1   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| CNNModules                        | <a href="#">CNN</a>                                 | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| GoogleModule                      | <a href="#">Google</a>                              | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| HETemplateModules                 | <a href="#">Blackboard Inc.</a>                     | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| Maps                              | <a href="#">Mapquest</a>                            | 1.0.2   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| New York Times                    | <a href="#">New York Times</a>                      | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| Time                              | <a href="#">Time</a>                                | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| Travel                            | <a href="#">Expedia</a>                             | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| WeatherModule                     | <a href="#">Weather.com</a>                         | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| Zap2ItModules                     | <a href="#">Zap2It</a>                              | 1.0.0   | Available | <a href="#">View Components</a> <a href="#">Remove</a>                            |
| AOI WYSIWYG Editor                | <a href="#">AOI Systems</a>                         | 2.5.8   | Available | <a href="#">View Components</a> <a href="#">Properties</a> <a href="#">Remove</a> |
| Blackboard Course creation Wizard | <a href="#">Blackboard Research and Development</a> | 1.0.1   | Available | <a href="#">View Components</a> <a href="#">Properties</a> <a href="#">Remove</a> |
| Sample Plugin                     | <a href="#">Sample Plugin Vendor</a>                | 1.0.1   | Inactive  | <a href="#">View Components</a> <a href="#">Remove</a>                            |

OK

5102

5100

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FIG. 51